REPORT

2023 Semi-Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company - Plant Scherer Ash Pond 1

Submitted to:

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August 31, 2023

SUMMARY

This *2023 Semi-Annual Groundwater Monitoring and Corrective Action Report*, Georgia Power Company - Plant Scherer Ash Pond 1 (AP-1 or the Site), Juliette, Monroe County, Georgia (GA), was prepared to document groundwater monitoring activities from January through June 2023. Groundwater monitoring and reporting for AP-1 is performed by WSP USA Inc. (WSP) in accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule published in the Code of Federal Regulations (CFR) Title 40 Part 257 (40 CFR Part 257, Subpart D) dated April 17, 2015, and revised July 2018, 40 CFR § 257.90 through § 257.98. As required in 40 CFR § 257.90(e), this semi-annual report describes the status of the groundwater monitoring program, summarizes key actions completed, and presents projected key activities for the upcoming reporting period at AP-1. Other CCR Landfill units on-site at Plant Scherer (Cell 1 and PAC Ash Cell) are reported separately.

Plant Scherer is a coal-fired power generation facility located in northeast Monroe County approximately 5 miles south of Juliette, GA. The property occupies approximately 13,000 acres and is bounded on the south by Lake Juliette. The planned closure of the AP-1 unit includes consolidation and capping of the ash within the 550-acre unit to a smaller footprint covering approximately 300 acres.

Plant Scherer Ash Pond 1

Groundwater at AP-1 is monitored with a comprehensive well network system comprised of upgradient and downgradient wells that meets federal and state monitoring requirements. Routine sampling and reporting for AP-1 began after background groundwater conditions were established for Appendix III and IV constituents between 2016 and 2018. Based on groundwater conditions at the Site, an assessment monitoring program was established for AP-1 in accordance with § 257.95 on May 15, 2018.

During the 2023 semi-annual reporting period, AP-1 remained in assessment monitoring. Groundwater elevation measurements were recorded at AP-1 monitoring wells within a 24-hour period prior to each sampling event. The elevation data were used to confirm the groundwater flow direction, and to confirm that the groundwater monitoring well network for the CCR unit effectively monitors groundwater downgradient of the unit. Thus, there are no changes to the AP-1 certified monitoring network in 2023. The groundwater semi-annual monitoring event for AP-1 was conducted in February 2023. Groundwater samples were collected and analyzed for both Appendix III and Appendix IV constituents from each of the Site monitoring wells.

Analytical data from the February 2023 monitoring event have been statistically analyzed in accordance with the Site's certified statistical analysis method. The February 2023 semi-annual monitoring event statistical analyses indicate statistically significant increases (SSIs) above the prediction limit and statistically significant levels (SSLs)

above the groundwater protection standard as summarized below. The AP-1 network remains in assessment monitoring.

Appendix III Constituent	Prediction Limit SSIs, February 2023
Boron	SGWC-9, SGWC-10, SGWC-11, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Calcium	SGWC-8, SGWC-9, SGWC-12, SGWC-14, SGWC-17, SGWC-18, SGWC-19, SGWC-21, SGWC-22, SGWC-23
Chloride	SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Fluoride	SGWC-8
pH	SGWC-15, SGWC-18, SGWC-20
Sulfate	SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
TDS	SGWC-8, SGWC-9, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Appendix IV Constituent	**Confidence Interval SSLs, February 2023**
Cobalt	SGWC-10, SGWC-11, SGWC-15, SGWC-18, SGWC-20

In response to the SSLs of cobalt, Georgia Power initiated an assessment of corrective measures (ACM) on November 18, 2021, and prepared an ACM Report on April 15, 2022. Georgia Power will continue through the ACM evaluation following the timelines and requirements of Georgia (GA) Environmental Protection Division (EPD) Rules of Solid Waste Management 391-3-4-.10 (Georgia CCR Rule) and 40 CFR § 257.96. Pursuant to the requirements of § 257.96 a semi-annual report on the progress of remedy selection has been documented herein.

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program during the 2023 semi-annual reporting period, the Site will remain in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GA EPD semi-annually.

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Certification

This 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report, Plant Scherer Ash Pond 1 (AP-1) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with WSP USA 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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1.0 INTRODUCTION

In accordance with the United States (US) Environmental Protection Agency (EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) 257 Subpart D and the Georgia (GA) Environmental Protection Division (EPD) Rules of Solid Waste Management 391-3-4-.10 (Georgia CCR Rule), WSP USA Inc. (WSP) has prepared this Semi-*Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted from January to June 2023 at Georgia Power's Plant Scherer (Scherer) Ash Pond 1 (AP-1 or the Site). This report includes the results of the first monitoring event conducted in February 2023. For ease of reference, the US EPA CCR Rule is cited within this report.

Due to statistically significant increases (SSIs) of Appendix III parameters, Georgia Power initiated an assessment monitoring program for AP-1 in 2018. An Alternate Source Demonstration (ASD) was submitted to GA EPD on January 14, 2019, to address statistically significant levels (SSLs) of cobalt identified at wells SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20. Following review of the ASD report, GA EPD issued a notice of non-concurrence, dated August 2021, which acknowledged that cobalt is naturally occurring in groundwater but required additional lines of evidence for approval. Following receipt of GA EPD's notice, Georgia Power initiated an assessment of corrective measures (ACM) on November 18, 2021. Pursuant to 40 CFR § 257.96(a), Georgia Power completed a deadline extension demonstration due to site-specific conditions with the ACM being documented on April 15, 2022. Georgia Power is performing an ACM following the timelines and requirements of Georgia CCR Rule 391-3-4-.10(6)(a) and 40 CFR § 257.96. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater at AP-1 in accordance with the assessment monitoring program established for the unit in 2018, including semi-annual monitoring and reporting.

The following sections describe the Site setting and monitoring program, analytical data collected from the most recent sampling event, statistical analysis of the data, a description of groundwater flow direction and rate, and a discussion of the current findings with relevant conclusions and recommendations for future monitoring activities at the Site.

1.1 Site Description and Background

Plant Scherer is a coal-fired power generation facility located in northeast Monroe County approximately 5 miles south of Juliette, GA. The Plant Scherer property occupies approximately 13,000 acres and is bounded on the south by Lake Juliette. The Plant is primarily surrounded by agricultural and residential use. Figure 1 depicts the location of Plant Scherer relative to the surrounding area.

CCR produced from power generation has historically been stored in AP-1. Figure 2 depicts the general configuration of AP-1 and Site monitoring wells. As of 2019, AP-1 no longer received CCR and as of October 30, 2020, AP-1 no longer received non-CCR waste streams. A permit application for closure of AP-1 was initially submitted to GA EPD in November 2018 and revised in 2021 and 2022 and is currently under review.

Plant Scherer 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. Overall, the property slopes gently south toward Lake Juliette and east toward the Ocmulgee River (Figure 1). AP-1 is located on a topographically high area, with several relatively small, intermittent, and perennial creeks and streams surrounding the pond. Several isolated hilltops occur west of the pond and represent topographic high points on the Site. Topographic relief across the Site is greater than 200 feet, with a natural topographic high of over 570 feet above mean sea

level (ft msl) occurring along the ridge west of AP-1, and a topographic low of less than 380 ft msl in the eastern portion of the Site near Berry Creek.

1.2 Regional and Site Geology and Hydrogeologic Setting

The following section includes a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the Site. Information presented in this section is based on published literature, discussion with local geologic experts, and experience working in this geologic terrain (Golder, 2020a).

Plant Scherer is located within the center of the East Juliette, GA US Geological Survey (USGS) 7.5-minute topographic quadrangle. The Piedmont/Blue Ridge geologic province contains some of the oldest rocks in the Southeastern US. Since their origin, approximately 276 to 1100 million years ago (Ma), these late Precambrian (Neoproterozoic) to late Paleozoic (Permian) rocks have undergone repeated cycles of igneous intrusions and extrusions, metamorphism, folding, faulting, shearing, and silicification. The latest regional metamorphism and associated deformation has been attributed to the collision of the North America plate with the Eurasian plate approximately 200 to 230 Ma. Later deformation and emplacement of mafic dikes is associated with the rifting of the North American craton during the Mesozoic and Cenozoic Eras.

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 forming a dendritic drainage pattern. These rocks are deeply weathered due to the humid climate and 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 feldspathic 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.

Locally, boring logs and monitoring/piezometer installation logs were used to evaluate the hydrostratigraphy of the Site. Material types identified included residual soils, saprolitic soils, saprolitic rock (or partially weathered rock if blow counts were provided), transitionally weathered rock (TWR), which are referred to as overburden, and competent bedrock. Residual and soils, primarily sandy silt, silty sand, sandy clay, and silty clay, occur as a variably thick blanket overlying bedrock across most of the Site. The thickness of the soil encountered in the borings is variable, ranging from little to no soil where outcrop is encountered at the surface, to as much at 168 feet. Thickness of saprolitic soils /or saprolitic rock are variable across the Site. The saturated thickness of the overburden material ranges from 2 feet to over 40 feet.

Based on a review of boring and well construction logs, the screen sections and filter pack intervals for most of the piezometers and monitoring wells installed at the Site are located within the overburden. Based on groundwater elevations, groundwater generally flows from the northwest towards AP-1 and then radially (following topography) away from the ridge to the northeast and east, southeast and south, and southwesterly directions across the Site and is consistent with historical observations. The direction and gradient of topography and groundwater surface suggests and supports an unconfined, phreatic or water table aquifer generally within the overburden.

Field hydraulic conductivity tests (i.e., slug tests) performed in a variety of geologic materials on site indicate an average horizontal hydraulic conductivity on the order of $6x10^{-4}$ centimeters per second (cm/s) with an average of 2.36 feet/day (ft/day) and a median of 1.31 ft/day (Golder, 2020a). This hydraulic conductivity is generally consistent with regional measurements within Piedmont overburden (Heath, 1982).

1.3 Groundwater Monitoring Well Network

A groundwater monitoring system was installed within the uppermost aquifer at Plant Scherer's AP-1 in accordance with § 257.91 (Golder, 2018). The monitoring system is intended to monitor groundwater passing the waste boundary of AP-1 within the uppermost aquifer. Wells are located upgradient and downgradient of AP-1 based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. A network of 25 wells was installed for groundwater monitoring near AP-1. Table 1 includes the pertinent construction details for the AP-1 monitoring well network at Plant Scherer.

Additionally, a series of groundwater piezometers have been installed for gauging groundwater elevations. Table 1 also includes pertinent construction details for the AP-1 piezometers. Landfill Cell 1 and PAC Ash Cell wells are discussed in a separate report. The detection monitoring well network has been certified by a Registered Professional Engineer in Georgia and notice of that certification has been placed in the Plant Scherer Operating Record.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with 40 CFR § 257.90(e), the following describes monitoring-related activities performed during the first half of calendar year 2023 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified groundwater monitoring well system. The location of each of these monitoring wells is shown on Figure 2. Table 2 presents a summary of groundwater sampling events completed for AP-1 during the first semi-annual event in 2023. Field Data Forms and Instrument Calibration Forms for the first semi-annual event in 2023 are included in Appendix A. Analytical results, laboratory accreditation, and data validation summaries for the February 2023 sampling events are included in Appendix B.

2.1 Monitoring Well Installation and Maintenance

There was no change to the detection groundwater monitoring system during this reporting period. Monitoring wells are inspected semi-annually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February 2023 monitoring wells were inspected and necessary corrective actions were identified. The well condition inspection forms are included in Appendix C.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(3), an assessment monitoring program has been established for AP-1 at Plant Scherer based on statistically significant increases. A notice of assessment monitoring was placed in the Plant Scherer Operating Record on May 15, 2018.

The groundwater sampling event was conducted for AP-1 in February 2023. Samples were collected from each well in the certified monitoring network as well as those in the assessment monitoring network presented in Table 1. Table 2 presents a summary of groundwater sampling events completed for AP-1 and the status of the monitoring network.

During the February semi-annual sampling event, groundwater samples were collected for Appendix III and Appendix IV constituents. Results of the sampling activities conducted during calendar year 2023 are discussed in Section 5.0, and the data are presented in Appendix B.

2.3 Supplemental Sampling

Additional sampling was conducted during the reporting period in support of the assessment of corrective measures and in continuing to define the nature and extent of cobalt observed in groundwater at the Site. Groundwater samples collected from the detection and assessment monitoring well networks in February 2023 were analyzed for major ions (magnesium, potassium, sodium, total and bicarbonate alkalinity). In addition, additional monitoring, as recommended by the Risk Evaluation Report (Wood, 2021) was completed at Site piezometers PZ-25S and PZ-25I. The laboratory reports associated with each of these sampling events are provided in Appendix B.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

Groundwater sampling events were conducted for AP-1 in February 2023. During the 2023 semi-annual sampling event, groundwater samples were collected for Appendix III and Appendix IV constituents from each detection and assessment monitoring wells. Results of sampling activities conducted in 2023 are presented in Appendix B.

3.1 Groundwater Level Measurements

Groundwater elevations were recorded on February 21, 2023, from Site monitoring wells and piezometers. Due to site access constraints related to construction, one well at Cell 1 was not gauged for water levels during the February 2023 sampling event. Water levels are provided in Table 3 and are consistent with historic data. The recorded water level data from the semi-annual monitoring event was used to develop a potentiometric surface elevation contour map as presented on Figure 3. Review of Figure 3 shows that groundwater generally flows from the northwest towards AP-1 and then radially (following topography) away from the ridge to the northeast and east, southeast and south, and southwesterly directions across the Site and is consistent with historical observations. The consistent correlation in direction and gradient of topography and groundwater surface suggests and supports an unconfined, phreatic or water table aquifer within the overburden.

3.2 Groundwater Gradient and Flow Velocity

Groundwater flow rates at the Site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on available slug test data, hydraulic conductivity of approximately 1.31 to 2.36 feet per day was used in the flow calculations. The hydraulic gradient was calculated between well pairs shown on Table 4. An effective porosity of 0.2 was used based on the default values for effective porosity recommended by US EPA for a silty sand-type soil (US EPA, 1996).

Horizontal flow velocity was calculated using the commonly used derivative of Darcy's Law:

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

Where:

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

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

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

n_e = Effective porosity

Using this equation and groundwater elevation data from February 2023, horizontal groundwater velocities are calculated for various areas of the Site and are tabulated on Table 4.

As presented on Table 4, groundwater flow velocities across at the Site range from approximately 0.08 ft/day to 0.45 ft/day across AP-1 in February 2023. Overall, as discussed in Section 3.1, the direction and gradient of topography and groundwater surface suggests and supports an unconfined, phreatic or water table aquifer generally within the overburden at Plant Scherer.

3.3 Groundwater Sampling

Groundwater samples were collected in accordance with § 257.93(a). Monitoring wells were purged and sampled using low-flow sampling procedures. Dedicated and/or non-dedicated peristaltic and low-flow pneumatic bladder pumps were used to purge and sample the wells. Non-dedicated equipment was decontaminated in accordance with US EPA Region 4 standard operating procedures (US EPA, 2020a). During purging of each well, field measurements of temperature, specific conductance, dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP) were recorded using a SmarTroll® (an In-Situ® field instrument) or an Aqua TROLL 400 along with a separate turbidity meter to verify stabilization.

Groundwater samples were collected when the following general stabilization criteria were met:

- 0.1 standard units (S.U.) for pH
- 5% for specific conductance
- ±10% or 0.2 milligrams per liter (mg/L), whichever is greater for DO. Where DO>0.5 mg/L, no stabilization criteria apply
- Turbidity measurements less than 5 nephelometric turbidity units (NTUs)

Following well stabilization, unfiltered samples were collected directly into appropriately preserved laboratory supplied sample containers, placed in iced coolers, and submitted to the laboratory following standard chain-of-custody protocol. Field data forms (“Low-Flow Test Reports”) generated directly from the SmarTroll® or Aqua TROLL 400, along with daily calibration logs are included in Appendix A and chain of-custody records are included in Appendix B.

Field data sheets and the Low-Flow Test Reports are included in Appendix A. Field data and sampling notes for each monitoring well are recorded on the field information forms, which contains a description of the sampling equipment, sampling method, purge rate, field observations, and depth to water measurements at each monitoring location.

3.4 Laboratory Analyses

Groundwater samples were collected during February 2023. Because AP-1 is currently in assessment monitoring, groundwater samples from AP-1 detection and assessment monitoring wells and supplemental monitoring PZ-25S and PZ-25I were analyzed for Appendix III and Appendix IV monitoring parameters per 40 CFR Parts 257. Groundwater samples were also analyzed for major ions (magnesium, potassium, sodium, total and bicarbonate alkalinity). Table 5 presents tabulated summaries of the February 2023 sampling results.

The required laboratory analyses were performed by Eurofins TestAmerica Laboratory (TAL) locations in Pittsburgh, Pennsylvania, St. Louis, Missouri, and Savannah, Georgia. TAL is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed for this project. Groundwater data and chain of custody records for the monitoring events are presented in Appendix B.

3.5 Quality Assurance and Quality Control Summary

During the February 2023 groundwater monitoring event, quality assurance/quality control (QA/QC) samples are collected at a rate of at least one sample per every 10 samples. Equipment blanks (where non-dedicated sampling equipment is used), field blanks, and duplicate samples were also collected. QA/QC sample data was evaluated during data validation and is included in Appendix B.

A value followed by a "J" flag in tables and laboratory reports indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

Groundwater quality data in this report were independently validated in accordance with US EPA Region 4 Data Validation Standard Operating Procedures (US EPA, 2011), National Functional Guidelines for Inorganic Superfund Methods Data Review (US EPA, 2020b) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences (RPDs), laboratory, and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data per US EPA procedures and guidance. Data validation summary reports prepared by WSP are included in Appendix B. Flagged data identified in the statistical analysis reports are described in the following section. The data are considered usable for meeting project objectives and the results are considered valid.

4.0 STATISTICAL ANALYSES

Statistical analysis of Appendix III and Appendix IV groundwater monitoring data was performed pursuant to § 257.93-95 following the established statistical method for AP-1.

4.1 Statistical Method

The selected statistical method for AP-1 was developed in accordance with § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities*, Unified Guidance, US EPA 530/R-09-007 (Unified Guidance) (US EPA March 2009). The Sanitas Statistical Software (Sanitas™) package was used to perform the statistical analyses of groundwater data. Sanitas™ is a decision-support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the Unified Guidance (US EPA, 2009). A summary table of the statistical results accompanies the prediction limits for Appendix III and confidence intervals for Appendix IV in Appendix D.

4.1.1 Appendix III Statistical Methods

For Appendix III constituents, groundwater monitoring data was statistically evaluated using interwell prediction limits. The Sen's Slope/Mann Kendall trend test was also performed to evaluate concentrations over time and determine whether concentrations are statistically increasing, decreasing, or stabilizing.

4.1.2 Appendix IV Assessment Monitoring Statistical Methods

For the Assessment Monitoring Program (Appendix IV constituents), parametric tolerance limits were used to calculate site specific background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

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

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

On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentration of these constituents is higher. Statistical evaluation for the February 2023 event was updated to reflect these changes.

Consistent with applicable regulatory requirements, GWPS were established for statistical comparison of Appendix IV constituents. Table 6 summarizes the background limit established for each constituent and the corresponding GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS established for both the State and Federal rules. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to be above its respective standard and to be an SSL.

Tolerance limits for confidence interval calculations are updated to include current data for each of the events. Due to varying reporting limits in background, the most recent reporting limit is used when data are not reported above detection limits.

4.2 Statistical Analysis Results

Analytical data from the first semi-annual monitoring event conducted in February 2023, have been statistically analyzed in accordance with the Statistical Analysis Plan for AP-1. Verification resampling to confirm initial SSIs was not performed; therefore, initial SSIs are considered verified. The statistical results of the February 2023 monitoring event are included in Appendix D.

4.2.1 First Semi-Annual 2023 – Appendix III Statistical Results

Based on statistical results presented in Appendix D, SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and TDS at various wells were identified following the February 2023 semi-annual monitoring event. A detailed list of

the noted SSIs is provided in Appendix D. Based on review of the Appendix III statistical analyses results, assessment monitoring will continue pursuant to 40 CFR 257.94(f).

4.2.2 First Semi-Annual 2023 – Assessment Monitoring Statistical Results

Analytical data from the February 2023 monitoring event at AP-1 have been statistically analyzed in accordance with the AP-1 certified statistical analysis method. Review of the statistical results indicates that using the GWPS established according to both 40 CFR § 257.95(h) and 391-3-4-.10(6)(a), the following SSLs were identified:

AP-1 Confidence Interval Statistically Significant Levels February 2023	
Appendix IV Parameter	**AP-1 Monitoring Well**
Cobalt	SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20

4.2.3 First Semi-Annual 2023 Trend Evaluation

February 2023 results for cobalt were further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are significantly increasing, decreasing or stable. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the Site which is an indication of natural variability in groundwater. Results of trend analyses for cobalt are presented in the February 2023 Statistical Package in Appendix D. Statistically significant trends were noted for the following well/constituent pairs:

Increasing Trends (Cobalt)	Decreasing Trends (Cobalt)
None	SGWA-1 (upgradient), SGWA-25 (upgradient), SGWC-11, and SGWC-20

5.0 ASSESSMENT MONITORING AND DELINEATION STATUS

CCR compliance groundwater monitoring-related activities have been performed for AP-1 since September 2016 pursuant to the CCR rule. Georgia Power initiated an assessment monitoring program in May 2018 after identifying SSIs of Appendix III parameters in groundwater. Pursuant to § 257.95, samples were collected from the compliance monitoring wells and analyzed for Appendix IV constituents.

In accordance with Section 21.1.1 of the Unified Guidance (US EPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. At the time of this report, the data set for some of the assessment wells is limited to fewer than four independent datums and therefore not appropriate for statistical analyses. For wells where the minimum of four data points are available, statistical analyses are discussed in Section 4.0, above, and are included in Appendix D.

To characterize the nature and extent of cobalt SSLs, multiple piezometers have been installed and sampled at the Site (Golder, 2020a); refer to the table below for constituent delineation status. Specific details regarding the

delineation status at AP-1, including isoconcentration contours for cobalt, is discussed in the *Semi-Annual Remedy Selection and Design Progress Report* (Appendix E).

Detection/Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well	Horizontal Delineation Well Location
SGWC-10	Cobalt	PZ-69I [1]	PZ-13S
SGWC-11	Cobalt	PZ-44I	PZ-14S
SGWC-15	Cobalt	PZ-17I	PZ-39S
SGWC-18	Cobalt	PZ-40I	PZ-41S
SGWC-20	Cobalt	PZ-42I	PZ-43S

Note:

[1] Delineation is complete pending statistical data evaluations at location PZ-69I. A minimum of four data points is needed to perform the required statistical analyses. Reported sample results at each of these locations are below the GWPS.

Horizontal and vertical delineation is summarized below based on review of analytical results, statistical analyses and the isoconcentration contours (Appendix E).

Cobalt at SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20: Horizontal delineation for cobalt is defined by wells PZ-13S, PZ-14S, PZ-39S, PZ-41S and PZ-43S. There are no SSLs for any of the horizontal delineation wells and therefore horizontal delineation is complete.

Vertical delineation for cobalt is defined using wells PZ-69I, PZ-44I, PZ-17I, PZ-40I, and PZ-42I. Reported results are below the GWPS and therefore, vertical delineation is complete. However, in accordance with the statistical plan, sufficient data to perform statistical analyses is pending at PZ 69I; a minimum of four data points are needed to perform statistical operations.

6.0 ASSESSMENT OF CORRECTIVE MEASURES

On November 18, 2021, Georgia Power initiated the ACM for cobalt and documented the ACM report in the operating record on April 15, 2022. Georgia Power will continue the evaluation of ACM alternatives following the timelines and requirements of Rule 394-3-4-.10(6)(d)4 and § 257.96 and § 257.94(e)(3).

In accordance with 40 CFR § 257.97(a), a remedy selection progress report will be prepared and submitted concurrent with semi-annual groundwater monitoring reports to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy. The *Semi-Annual Remedy Selection and Design Progress Report* that is included as Appendix E includes the following information:

i) A summary of the closure status for AP-1 as it relates to source control.

ii) Summary of work completed to date to achieve delineation of cobalt and a summary of data collected to date towards remedy selection.

iii) A summary of remedial alternatives and progress towards remedy selection.

7.0 MONITORING PROGRAM STATUS

Statistical evaluations of the groundwater monitoring well data for AP-1 confirm SSIs of Appendix III groundwater monitoring parameters above background and SSLs of Appendix IV groundwater monitoring parameter (cobalt) above the GWPS. AP-1 will continue to be monitored in accordance with the assessment monitoring program pursuant to 40 CFR § 257.95. On November 18, 2021, Georgia Power initiated an ACM per Georgia CCR Rule 391-3-4-.10(6)(a) and § 257.96 to address the concentrations of cobalt in Site groundwater. Pursuant to 40 CFR 257.95(g)(1)(iv), the assessment wells continue to be sampled as part of the ongoing semi-annual assessment monitoring program and the assessment of corrective measures.

8.0 CONCLUSIONS AND FUTURE ACTIONS

This *2023 Semi-Annual Groundwater Monitoring and Corrective Action Report*, Georgia Power Company - Plant Scherer Ash Pond 1 was prepared to fulfill the requirements of US EPA's 40 CFR § 257.95 and GA EPD's 391-3-4-.10. The groundwater flow direction interpreted during this event is consistent with historical evaluations.

Review of analytical results and statistical analyses developed for AP-1 indicates SSLs of cobalt identified during the first semi-annual event for 2023. The monitoring well network continues to effectively monitor the uppermost aquifer beneath AP-1 and compliance monitoring will be conducted in accordance with § 257.94 and § 257.95.

Based on the findings presented herein, AP-1 will continue with assessment groundwater monitoring and is continuing with an ACM in response to the SSLs of cobalt in Site groundwater. The next scheduled sampling event is tentatively scheduled for August 2023. The August 2023 semi-annual assessment monitoring event will meet the requirements of § 257.95(b) and § 257.95(d)(1) and will include sampling and analysis of Appendix III and IV constituents.

9.0 REFERENCES

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TABLES

TABLE 1
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (ft BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
AP-1 DETECTION MONITORING WELL NETWORK												
SGWA-1	Upgradient	Overburden	1119233.10	2399899.81	544.27	544.1	546.83	53.7	503.57	493.57	10	2/11/2015
SGWA-2	Upgradient	Bedrock	1119237.67	2399908.19	544.20	544.0	546.94	98.5	458.55	448.55	10	2/17/2015
SGWA-3	Upgradient	Overburden	1120224.15	2399296.64	543.03	542.9	545.83	53.0	502.88	492.88	10	11/18/2015
SGWA-4	Upgradient	Overburden	1121477.05	2401124.64	544.96	544.8	547.66	63.3	494.31	484.31	10	11/17/2015
SGWA-5	Upgradient	Overburden	1118088.42	2397426.26	505.93	505.7	508.48	32.8	485.53	475.53	10	11/18/2015
SGWC-6	Downgradient	Overburden	1122167.18	2401979.98	507.87	507.7	510.49	27.8	492.67	482.67	10	11/12/2015
SGWC-7	Downgradient	Bedrock	1122668.61	2402259.75	503.65	503.5	506.40	37.9	478.45	468.45	10	11/11/2015
SGWC-8	Downgradient	Overburden/Bedrock	1122865.98	2402979.50	511.68	511.5	514.28	42.8	481.48	471.48	10	11/11/2015
SGWC-9	Downgradient	Overburden	1122634.64	2403455.19	507.88	507.6	510.62	38.0	482.63	472.63	10	11/6/2015
SGWC-10	Downgradient	Overburden	1121895.85	2404046.92	506.80	506.6	509.41	32.8	486.60	476.60	10	11/5/2015
SGWC-11	Downgradient	Overburden	1121542.11	2404332.12	508.77	508.6	511.47	42.9	478.62	468.62	10	10/29/2015
SGWC-12	Downgradient	Overburden	1121576.75	2405009.92	497.80	497.7	500.53	50.4	460.70	450.70	10	10/30/2015
SGWC-13	Downgradient	Overburden	1121274.85	2405761.20	480.17	479.9	482.71	37.8	454.92	444.92	10	11/4/2015
SGWC-14	Downgradient	Overburden	1120966.13	2406329.89	473.52	473.3	476.72	38.7	448.52	438.52	10	2/24/2015
SGWC-15	Downgradient	Overburden	1120191.20	2407093.92	479.76	479.7	482.75	48.3	444.86	434.86	10	2/26/2015
SGWC-16	Downgradient	Overburden	1119221.42	2407155.89	457.18	457.0	460.31	43.5	428.23	418.23	10	3/3/2015
SGWC-17	Downgradient	Overburden	1118308.77	2407267.44	415.13	414.9	418.00	27.6	400.83	390.83	10	3/11/2015
SGWC-18	Downgradient	Overburden	1116947.75	2406931.32	510.41	510.3	513.29	47.5	476.21	466.21	10	3/17/2015
SGWC-19	Downgradient	Overburden	1116024.59	2406097.05	476.13	475.8	478.94	37.7	451.63	441.63	10	3/18/2015
SGWC-20	Downgradient	Overburden	1116020.73	2405307.67	501.69	501.5	504.60	28.1	486.49	476.49	10	11/19/2015
SGWC-21	Downgradient	Overburden	1115409.88	2404197.33	484.92	484.7	487.67	27.9	470.17	460.17	10	5/6/2015
SGWC-22	Downgradient	Overburden	1115540.08	2403001.81	515.51	515.4	518.02	52.7	478.91	468.91	10	1/22/2015
SGWC-23	Downgradient	Bedrock	1116693.80	2402131.07	520.17	520.0	523.10	52.8	480.72	470.72	10	2/3/2015
SGWA-24	Upgradient	Overburden	1118121.96	2400743.52	489.47	489.3	492.38	43.1	461.62	451.62	10	2/10/2015
SGWA-25	Upgradient	Overburen	1120555.28	2400857.08	523.45	523.2	526.49	48.3	488.60	478.60	10	2/18/2015

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AP-1 ASSESSMENT MONITORING WELL NETWORK												
PZ-13S	Downgradient	Overburden	1121957.03	2404227.47	517.68	517.5	520.51	48.3	482.58	472.58	10	4/1/2015
PZ-14S	Downgradient	Overburden	1121852.80	2404820.56	509.03	508.7	512.13	48.4	474.18	464.18	10	3/26/2015
PZ-17I	Downgradient	Bedrock	1120190.27	2407107.37	480.20	479.9	483.03	100.4	393.20	383.20	10	2/27/2015
PZ-39S	Downgradient	Overburden	1120178.43	2407470.49	471.99	471.8	474.58	82.8	405.79	395.79	10	8/21/2018
PZ-40I	Downgradient	Bedrock	1116960.39	2406934.72	510.19	510.1	512.55	86.5	437.09	427.09	10	8/15/2018
PZ-41S	Downgradient	Overburden	1116799.18	2407124.98	488.66	488.6	491.50	47.9	453.56	443.56	5	8/16/2018
PZ-42I	Downgradient	Bedrock	1116013.79	2405294.12	500.65	500.5	503.18	107.7	414.45	404.45	10	8/21/2018
PZ-43S	Downgradient	Overburden	1115598.12	2405507.16	501.34	501.2	504.03	57.8	460.69	450.69	10	8/17/2018
PZ-44I	Downgradient	Bedrock	1121515.40	2404330.23	507.91	507.9	510.36	116.5	403.86	393.86	10	9/5/2018
PZ-69I	Downgradient	Bedrock	1121906.36	2404051.35	506.44	506.0	508.85	108.9	410.00	400.00	10	1/13/2022
PIEZOMETERS												
PZ-2I	Downgradient	Bedrock	1115544.85	2402990.76	515.06	514.8	517.56	86.8	440.91	430.91	10	1/27/2015
PZ-3S	Downgradient	Overburden	1116085.04	2402533.80	514.57	514.4	517.29	52.9	474.77	464.77	10	1/29/2015
PZ-5I	Downgradient	Bedrock	1117484.15	2401816.71	520.73	520.6	523.26	49.8	484.03	474.03	10	2/4/2015
PZ-9I	Upgradient	Bedrock	1120562.72	2400862.76	523.61	523.3	526.57	83.5	453.51	443.51	10	2/19/2015
PZ-10S	Downgradient	Overburden	1122338.03	2401768.92	514.78	514.4	517.53	38.1	489.88	479.88	10	5/5/2015
PZ-11S	Downgradient	Overburden	1123169.22	2402767.44	526.19	526.0	529.31	49.2	490.54	480.54	10	4/6/2015
PZ-12S	Downgradient	Overburden	1122684.90	2403618.46	514.64	514.5	517.69	47.5	480.54	470.54	10	4/1/2015
PZ-14I	Downgradient	Bedrock	1121866.36	2404822.43	510.03	509.7	512.89	98.4	424.93	414.93	10	3/25/2015
PZ-15S	Downgradient	Overburden	1121486.96	2405558.59	497.59	497.4	500.60	43.3	467.74	457.74	10	4/28/2015
PZ-19I	Downgradient	Bedrock	1118588.47	2407251.56	414.74	414.5	417.76	75.1	353.04	343.04	10	3/4/2015
PZ-19S	Downgradient	Overburden	1118587.24	2407241.54	414.79	414.5	417.80	28.3	399.94	389.94	10	3/4/2015
PZ-20I	Downgradient	Bedrock	1118318.15	2407273.36	414.46	414.3	417.41	82.7	345.11	335.11	10	3/10/2015
PZ-21S	Downgradient	Overburden	1117639.19	2407006.52	470.85	470.6	473.74	28.1	457.60	447.60	10	3/12/2015
PZ-25S	Downgradient	Overburden	1121848.11	2404567.52	525.78	525.5	528.24	58.8	480.78	470.68	10	5/25/2016
PZ-25I	Downgradient	Overburden	1121837.80	2404573.04	526.02	525.8	528.39	128.6	410.97	400.97	10	5/24/2016

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PIEZOMETERS - continued												
PZ-26S	Downgradient	Overburden	1121696.65	2405733.23	489.17	489.1	491.65	48.6	454.27	444.27	10	6/1/2016
PZ-27D	Downgradient	Bedrock	1121558.94	2406023.17	472.659	472.4	475.43	129.0	367.61	347.61	20	6/17/2016
PZ-27S	Downgradient	Overburden	1121565.33	2406028.25	473.175	473.1	475.80	48.7	438.33	428.33	10	5/26/2016
PZ-28I	Downgradient	Bedrock	1121394.06	2406373.94	481.587	481.4	484.18	72.7	422.84	412.84	10	6/3/2016
PZ-29S	Downgradient	Overburden	1121269.19	2406618.29	488.704	488.5	491.31	48.8	453.70	443.70	10	5/26/2016
PZ-30I	Downgradient	Bedrock	1121073.53	2407078.99	475.712	475.6	478.31	89.8	400.46	390.46	10	6/2/2016
PZ-31I	Downgradient	Bedrock	1121204.03	2407445.73	464.163	464.0	466.89	79.9	399.06	389.06	10	6/2/2016
PZ-32D	Downgradient	Bedrock	1121089.64	2407719.37	462.561	462.4	465.42	129.6	366.56	336.56	30	6/1/2016
PZ-32S	Downgradient	Overburden	1121089.22	2407698.44	462.52	462.3	465.06	59.8	417.47	407.47	10	6/1/2016
PZ-33I	Downgradient	Overburden	1121245.25	2409064.05	466.547	466.4	469.38	79.4	400.65	390.65	10	6/8/2016
PZ-34S	Downgradient	Overburden	1121331.59	2409288.37	441.08	440.8	443.67	48.8	405.53	395.53	10	6/4/2016
PZ-35I	Downgradient	Overburden	1121598.57	2406058.33	474.72	474.6	474.40	55.8	429.27	419.27	10	6/22/2016
PZ-36I	Downgradient	Bedrock	1120410.99	2407256.25	478.96	478.9	481.52	99.7	393.56	383.56	10	6/5/2016
PZ-36S	Downgradient	Overburden	1120401.04	2407248.04	479.50	479.4	482.35	59.0	434.40	424.40	10	8/22/2018
PZ-37I	Downgradient	Overburden/Bedrock	1121178.48	2408419.19	479.68	479.5	482.18	75.2	418.48	408.48	10	6/2/2016
PZ-38I	Downgradient	Overburden	1121475.86	2406352.98	482.38	482.2	482.24	76.0	418.43	408.43	10	6/23/2016
PZ-45D	Downgradient	Bedrock	1125296.24	2400250.55	509.94	509.7	512.33	167.6	399.74	344.74	55	3/9/2020
PZ-46D	Downgradient	Overburden/Bedrock	1123512.22	2400923.25	447.37	447.1	450.28	56.7	423.57	393.57	30	3/17/2020
PZ-47D	Downgradient	Bedrock	1126623.42	2404366.80	406.91	406.8	410.01	29.2	396.66	381.66	15	3/11/2020
PZ-48S	Downgradient	Overburden	1125014.71	2405779.92	441.45	441.3	444.33	64.0	390.55	380.55	10	3/4/2020
PZ-49D	Downgradient	Bedrock	1123429.73	2410615.29	365.13	364.9	367.41	108.5	288.88	258.88	30	3/6/2020
PZ-49S	Downgradient	Overburden	1123434.46	2410605.99	365.29	365.2	367.89	27.7	350.19	340.19	10	3/7/2020
PZ-50D	Upgradient	Bedrock	1103125.91	2408306.87	470.70	470.7	473.78	103.1	380.66	370.66	10	3/18/2020
PZ-51D	Upgradient	Bedrock	1119239.99	2399955.07	543.47	543.2	546.04	128.9	427.17	417.17	10	3/8/2020
PZ-52	Downgradient	Overburden	1122822.91	2403622.69	519.68	519.4	521.84	79.4	452.43	442.43	10	3/17/2020
PZ-53	Downgradient	Overburden	1121932.34	2404813.43	513.81	513.6	516.64	48.0	478.61	468.61	10	3/19/2020

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PIEZOMETERS - continued												
PZ-54	Downgradient	Overburden	1121509.71	2406555.15	490.27	490.2	492.96	47.8	455.17	445.17	10	3/19/2020
PZ-55	Downgradient	Overburden	1121931.60	2409132.43	444.25	444.2	447.21	39.1	418.15	408.15	10	3/20/2020
PZ-56	Downgradient	Bedrock	1123524.68	2409037.21	431.10	430.8	433.68	48.8	395.10	385.10	10	3/19/2020
PZ-57	Downgradient	Overburden/Bedrock	1123405.64	2407361.88	436.55	436.4	439.51	62.1	387.45	377.45	10	3/19/2020
PZ-58	Downgradient	Overburden	1123299.43	2405207.09	489.35	489.3	492.21	49.0	453.25	443.25	10	3/16/2020
PZ-59S	Downgradient	Overburden	1125213.65	2407658.45	383.13	382.8	385.93	27.1	368.83	358.83	10	3/20/2020
PZ-59D	Downgradient	Bedrock	1125229.89	2407668.93	383.16	382.9	385.86	72.0	328.86	313.86	15	3/27/2020
PZ-60D	Downgradient	Bedrock	1124410.72	2408242.87	386.53	386.4	389.34	102.9	317.03	286.73	30	3/29/2020
PZ-60S	Downgradient	Overburden	1124400.44	2408243.59	386.66	386.4	389.88	23.5	376.36	366.36	10	3/31/2020
PZ-61	Downgradient	Overburden/Bedrock	1122537.21	2408531.43	436.84	436.8	439.27	52.5	397.34	387.34	10	4/11/2020
PZ-62	Downgradient	Overburden	1122370.34	2406175.11	498.45	498.3	501.32	55.1	456.00	446.00	10	4/9/2020
PZ-63	Downgradient	Bedrock	1123955.38	2404060.61	499.12	498.9	501.54	42.7	468.87	458.87	10	4/12/2020
PZ-64	Downgradient	Bedrock	1123724.36	2406404.18	476.09	476.0	479.52	72.5	416.99	406.99	10	4/8/2020
PZ-65	Downgradient	Overburden	1121937.16	2407733.04	429.77	429.6	432.42	32.8	409.57	399.57	10	4/11/2020
PZ-66D	Downgradient	Bedrock	1124644.48	2409028.45	424.64	424.4	427.60	269.2	-	-	open borehole	4/2/2020
PZ-66	Downgradient	Bedrock	1124664.10	2409115.98	418.68	418.4	421.24	62.9	373.38	358.38	15	5/8/2020
PZ-67D	Downgradient	Bedrock	1125764.81	2408259.40	424.86	424.7	428.48	304.8	-	-	open borehole	4/1/2020
PZ-67	Downgradient	Overburden	1125782.26	2408248.89	423.37	423.2	425.94	42.7	393.47	383.47	10	4/25/2020
PZ-68	Downgradient	Overburden	1125116.59	2407181.92	392.34	392.1	395.55	23.4	382.14	372.14	10	4/15/2020
LPZ-01	Upgradient	Overburden/Bedrock	1117001.58	2398513.19	550.47	550.0	553.29	69.1	495.97	485.97	10	11/10/2015
LPZ-02	Upgradient	Overburden	1119972.34	2398004.93	511.42	511.1	514.52	23.4	501.07	491.07	10	11/20/2015
LPZ-03	Upgradient	Overburden	1117883.86	2398657.00	512.55	512.2	515.45	38.3	487.15	477.15	10	11/18/2015
LPZ-04	Upgradient	Overburden	1115962.59	2397083.47	458.31	458.1	461.24	43.1	440.11	430.11	10	11/19/2015
LPZ-05	Upgradient	Overburden	1115328.95	2399698.53	521.81	521.5	524.51	106.405	479.41	469.41	10	11/5/2015

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Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (ft BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
GYPSUM CELL 1												
GWC-1	Downgradient	Overburden	1120077.85	2411555.32	371.77	371.6	374.95	39.35	346.91	336.91	10	10/28/2009
GWC-2	Downgradient	Overburden	1119816.59	2411493.53	377.02	376.9	380.22	57.82	332.12	322.12	10	10/8/2009
GWC-3	Downgradient	Overburden	1119615.01	2411201.98	409.97	409.6	412.66	49.46	373.20	363.20	10	10/29/2009
GWC-4	Downgradient	Overburden	1119255.96	2411041.82	408.50	408.4	411.75	42.85	378.70	368.70	10	11/21/2009
GWC-5	Downgradient	Overburden	1118897.72	2411025.88	393.37	393.3	396.69	38.22	372.84	362.84	10	10/22/2009
GWC-6	Downgradient	Bedrock	1118575.69	2410872.56	412.48	412.4	415.80	47.92	377.52	367.52	10	10/21/2009
GWC-7	Downgradient	Overburden	1118243.67	2410645.91	414.51	414.4	418.27	58.36	369.84	359.84	10	10/20/2009
GWC-8A	Downgradient	Overburden	1117917.32	2410375.16	398.65	398.6	401.62	48.02	364.30	354.30	10	3/29/2017
GWC-9	Downgradient	Overburden	1117955.40	2410167.75	383.21	382.8	386.18	19.87	376.02	366.02	10	11/4/2009
GWC-10	Downgradient	Overburden	1118306.77	2410018.28	389.49	388.9	392.87	39.48	367.50	357.50	10	11/3/2009
GWC-11	Downgradient	Overburden	1118648.98	2409778.84	399.21	398.8	402.33	33.52	377.81	367.81	10	11/3/2009
GWC-12	Downgradient	Overburden	1118977.87	2409554.57	409.66	409.2	412.89	37.23	384.94	374.94	10	11/3/2009
GWC-13	Downgradient	Overburden	1119338.68	2409390.95	416.71	416.5	419.77	42.76	386.52	376.52	10	11/2/2009
GWC-14	Downgradient	Overburden	1119655.05	2409111.75	400.41	400.2	403.60	28.43	386.09	376.09	10	11/4/2009
GWA-15	Upgradient	Overburden	1120009.40	2409282.43	412.00	411.7	415.01	28.31	395.51	385.51	10	11/4/2009
GWA-16	Upgradient	Overburden	1120248.68	2409579.75	441.01	440.9	444.24	58.33	396.71	386.71	10	10/13/2009
GWA-17	Upgradient	Overburden	1120210.57	2409946.73	442.92	442.8	445.84	46.32	409.27	399.27	10	9/28/2009
GWC-18	Downgradient	Overburden	1119998.73	2410261.85	436.40	436.3	439.66	62.86	389.49	379.49	10	9/29/2009
GWC-19	Downgradient	Overburden	1119645.70	2410713.20	426.34	426.3	430.20	73.90	382.45	372.45	10	10/2/2009
GWC-20	Downgradient	Overburden	1119950.51	2411195.38	423.03	423.0	426.30	72.93	363.85	353.85	10	10/6/2009

TABLE 1
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (ft BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
PAC ASH CELL												
GWA-21	Upgradient	Overburden	1120675.73	2409462.70	419.81	419.7	422.58	19.88	412.04	402.04	10	6/29/2010
GWA-22	Upgradient	Overburden/Bedrock	1120962.12	2409473.22	442.01	442.0	444.50	42.49	412.29	402.29	10	6/30/2010
GWC-29	Downgradient	Overburden	1119875.58	2408717.95	396.98	396.9	399.64	27.12	382.78	372.78	10	6/28/2010
GWA-45	Upgradient	Overburden	1120669.03	2407889.56	448.33	448.3	451.08	35.81	425.99	415.99	10	6/23/2010
GWA-46	Upgradient	Overburden	1120783.23	2408235.69	458.37	458.3	461.13	46.31	424.38	414.38	10	6/23/2010
GWA-47	Upgradient	Overburden	1120862.63	2408585.01	463.03*	462.9	465.77	57.87	421.74	411.74	10	6/22/2010
GWA-48	Upgradient	Overburden	1120953.42	2408939.48	459.00	458.8	461.73	74.89	407.74	397.74	10	6/22/2010
GWA-49	Upgradient	Overburden	1121030.08	2409288.38	430.16	429.9	432.88	40.02	401.81	391.81	10	6/21/2010
GWC-50	Downgradient	Overburden	1119917.51	2408956.10	404.44	404.3	407.16	37.82	380.88	370.88	10	6/28/2010
GWC-51	Downgradient	Overburden	1119835.51	2408436.95	407.37	407.3	410.15	29.87	393.78	383.78	10	7/27/2010
GWC-52	Downgradient	Overburden	1119972.34	2408203.99	414.43	414.4	417.13	32.75	394.53	384.53	10	6/24/2010
GWC-53	Downgradient	Overburden	1120319.65	2407943.05	433.10	432.9	435.83	30.93	412.84	402.84	10	6/23/2010

TABLE 1
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (ft BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
CELL 3												
GWC-30	Downgradient	Overburden/Bedrock	1119366.69	2408976.35	392.19	392.0	394.49	21.5	384.04	374.04	10	1/24/2020
GWC-31	Downgradient	Overburden	1118970.00	2409062.02	390.13	390.0	392.78	21.8	380.68	370.68	10	1/23/2020
GWC-32	Downgradient	Overburden	1118749.53	2409084.83	407.25	406.9	410.03	38.1	381.95	371.95	10	1/21/2020
GWC-33A	Downgradient	Overburden	1118458.68	2409359.58	391.32	390.9	393.96	27.1	376.87	366.87	10	1/25/2020
GWC-34	Downgradient	Overburden	1118248.26	2409680.41	386.48	386.2	389.29	22.1	377.23	367.23	10	1/13/2020
GWC-35	Downgradient	Overburden	1117860.46	2409906.21	385.35	385.1	387.90	22.8	375.10	365.10	10	1/12/2020
GWC-36	Downgradient	Overburden	1117561.29	2409681.44	422.52	422.0	425.12	48.5	386.62	376.62	10	1/10/2020
GWC-37	Downgradient	Overburden	1117239.70	2409636.56	427.38	427.2	429.80	44.6	395.23	385.23	10	1/8/2020
GWC-38	Downgradient	Overburden	1116786.45	2409533.11	416.23	416.0	418.68	41.7	386.98	376.98	10	1/7/2020
GWA-39	Upgradient	Bedrock	1116967.57	2408671.68	454.59	454.2	457.62	62.4	405.24	395.24	10	12/20/2019
GWA-40	Upgradient	Overburden	1117365.24	2408730.04	461.25	461.2	463.84	47.5	427.15	417.15	10	12/18/2020
GWA-41	Upgradient	Overburden	1118096.97	2408412.15	431.70	431.4	434.12	46.7	403.75	393.75	10	1/26/2020
GWA-42	Upgradient	Overburden	1118500.68	2408233.53	402.57	402.2	405.19	21.8	393.37	383.37	10	1/27/2020
GWA-43	Upgradient	Overburden	1118861.38	2408484.42	398.42	398.1	400.94	21.8	389.12	379.12	10	1/26/2020
GWA-44A	Upgradient	Overburden	1119296.99	2408569.76	396.83	396.5	399.62	23.9	386.58	376.58	10	1/27/2020
GWA-54	Upgradient	Bedrock	1117751.40	2408588.52	448.78	448.6	451.49	51.7	409.83	399.83	10	12/21/2020

Notes:
ft = feet; feet bgs = feet below ground surface; ft BTOC = feet below top of casing
[1] Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
[2] Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
[3] Total well depth accounts for sump if data provided on well construction logs.
[4] Survey data provided by Jordan Engineering, Inc., July 2020.
[5] - = not applicable

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Scherer
Juliette, Georgia

Well ID	Hydraulic Location	Sampling Event	Status of Monitoring Well
		February-23	
Purpose of Sampling Event		Detection / Assessment	
AP-1 Detection Monitoring Wells			
SGWA-1	Upgradient	X	Assessment
SGWA-2	Upgradient	X	Assessment
SGWA-3	Upgradient	X	Assessment
SGWA-4	Upgradient	X	Assessment
SGWA-5	Upgradient	X	Assessment
SGWC-6	Downgradient	X	Assessment
SGWC-7	Downgradient	X	Assessment
SGWC-8	Downgradient	X	Assessment
SGWC-9	Downgradient	X	Assessment
SGWC-10	Downgradient	X	Assessment
SGWC-11	Downgradient	X	Assessment
SGWC-12	Downgradient	X	Assessment
SGWC-13	Downgradient	X	Assessment
SGWC-14	Downgradient	X	Assessment
SGWC-15	Downgradient	X	Assessment
SGWC-16	Downgradient	X	Assessment
SGWC-17	Downgradient	X	Assessment
SGWC-18	Downgradient	X	Assessment
SGWC-19	Downgradient	X	Assessment
SGWC-20	Downgradient	X	Assessment
SGWC-21	Downgradient	X	Assessment
SGWC-22	Downgradient	X	Assessment
SGWC-23	Downgradient	X	Assessment
SGWA-24	Upgradient	X	Assessment
SGWA-25	Upgradient	X	Assessment

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Scherer
Juliette, Georgia

Well ID	Hydraulic Location	Sampling Event	Status of Monitoring Well
		February-23	
Purpose of Sampling Event		Detection / Assessment	
AP-1 Assessment Monitoring Wells			
PZ-13S	Downgradient	X	Assessment
PZ-14S	Downgradient	X	Assessment
PZ-17I	Downgradient	X	Assessment
PZ-39S	Downgradient	X	Assessment
PZ-40I	Downgradient	X	Assessment
PZ-41S	Downgradient	X	Assessment
PZ-42I	Downgradient	X	Assessment
PZ-43S	Downgradient	X	Assessment
PZ-44I	Downgradient	X	Assessment
PZ-69I	Downgradient	X	Assessment
AP-1 Additional Monitoring Wells			
PZ-25I	Downgradient	X	Supplemental
PZ-25S	Downgradient	X	Supplemental

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (Feet NAVD88) (certified 7/17/2020)	GROUNDWATER ELEVATION (Feet NAVD88)
		2/21/2023
ASH POND		
SGWA-1	546.83	506.63
SGWA-2	546.94	507.52
SGWA-3	545.83	515.08
SGWA-4	547.66	501.34
SGWA-5	508.48	492.88
SGWC-6	510.49	496.61
SGWC-7	506.40	492.97
SGWC-8	514.28	493.30
SGWC-9	510.62	488.84
SGWC-10	509.41	486.24
SGWC-11	511.47	477.69
SGWC-12	500.53	483.96
SGWC-13	482.71	478.28
SGWC-14	476.72	466.17
SGWC-15	482.75	454.71
SGWC-16	460.31	436.35
SGWC-17	418.00	415.69
SGWC-18	513.29	470.77
SGWC-19	478.94	463.91
SGWC-20	504.60	491.98
SGWC-21	487.67	487.14
SGWC-22	518.02	492.78
SGWC-23	523.10	491.40
SGWA-24	492.38	478.63
SGWA-25	526.49	500.14
PIEZOMETERS		
PZ-2I	517.56	492.16
PZ-3S	517.29	488.77
PZ-5I	523.26	488.28

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (Feet NAVD88) (certified 7/17/2020)	GROUNDWATER ELEVATION (Feet NAVD88)
		2/21/2023
PIEZOMETERS - continued		
PZ-9I	526.57	500.16
PZ-10S	517.53	496.59
PZ-11S	529.31	491.28
PZ-12S	517.69	487.48
PZ-13S	520.51	488.75
PZ-14S	512.13	486.31
PZ-14I	512.89	486.30
PZ-15S	500.60	484.88
PZ-17I	483.03	455.14
PZ-19I	417.76	414.40
PZ-19S	417.80	413.78
PZ-20I	417.41	414.05
PZ-21S	473.74	463.41
PZ-25S	528.24	488.12
PZ-25I	528.39	488.28
PZ-26S	491.65	476.37
PZ-27S	475.80	471.61
PZ-27D	475.43	474.60
PZ-28I	484.18	467.02
PZ-29S	491.31	461.48
PZ-30I	478.31	448.68
PZ-31I	466.89	437.00
PZ-32S	465.06	438.32
PZ-32D	465.42	436.76
PZ-33I	469.38	425.47
PZ-34S	443.67	425.66
PZ-35I	474.40	471.38
PZ-36S	482.35	448.56
PZ-36I	481.52	450.80
PZ-37I	482.18	432.38

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (Feet NAVD88) (certified 7/17/2020)	GROUNDWATER ELEVATION (Feet NAVD88)
		2/21/2023
PIEZOMETERS - continued		
PZ-38I	482.24	466.98
PZ-39S	474.58	435.08
PZ-40I	512.55	471.62
PZ-41S	491.50	459.54
PZ-42I	503.18	493.91
PZ-43S	504.03	474.10
PZ-44I	510.36	490.67
PZ-45D	512.33	484.32
PZ-46D	450.28	439.52
PZ-47D	410.01	400.28
PZ-48S	444.33	409.24
PZ-49S	367.89	361.23
PZ-49D	367.41	362.48
PZ-50D	473.78	447.34
PZ-51D	546.04	507.15
PZ-52	521.84	486.82
PZ-53	516.64	486.12
PZ-54	492.96	462.51
PZ-55	447.21	421.40
PZ-56	433.68	393.18
PZ-57	439.51	405.33
PZ-58	492.21	446.59
PZ-59S	385.93	381.93
PZ-59D	385.86	381.70
PZ-60S	389.88	382.10
PZ-60D	389.34	384.64
PZ-61	439.27	408.99
PZ-62	501.32	470.06
PZ-63	501.54	480.83

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (Feet NAVD88) (certified 7/17/2020)	GROUNDWATER ELEVATION (Feet NAVD88)
		2/21/2023
PIEZOMETERS - continued		
PZ-64	479.52	429.62
PZ-65	432.42	416.11
PZ-66	421.24	385.84
PZ-66D	427.60	380.18
PZ-67	425.94	401.70
PZ-67D	428.48	381.48
PZ-68	395.55	387.42
PZ-69I	508.85	490.73
LPZ-01	553.29	495.34
LPZ-02	514.52	512.42
LPZ-03	515.45	509.41
LPZ-04	461.24	448.17
LPZ-05	524.51	477.24

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (Feet NAVD88) (certified 7/17/2020)	GROUNDWATER ELEVATION (Feet NAVD88)
		2/21/2023
CELL 1		
GWC-1	374.95	NM
GWC-2	380.22	368.38
GWC-3	412.66	376.98
GWC-4	411.75	379.50
GWC-5	396.69	377.59
GWC-6	415.80	377.35
GWC-7	418.27	375.84
GWC-8A	401.62	379.60
GWC-9	386.18	379.60
GWC-10	392.87	383.14
GWC-11	402.33	385.84
GWC-12	412.89	389.84
GWC-13	419.77	391.29
GWC-14	403.60	391.89
GWA-15	415.01	404.50
GWA-16	444.24	412.75
GWA-17	445.84	415.32
GWC-18	439.66	405.44
GWC-19	430.20	392.20
GWC-20	426.30	381.74

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (Feet NAVD88) (certified 7/17/2020)	GROUNDWATER ELEVATION (Feet NAVD88)
		2/21/2023
PAC ASH CELL		
GWA-21	422.58	419.14
GWA-22	444.50	421.78
GWC-29	399.64	394.18
GWA-45	451.08	436.39
GWA-46	461.13	429.90
GWA-47	465.77	426.18
GWA-48	461.73	424.41
GWA-49	432.88	423.47
GWC-50	407.16	398.91
GWC-51	410.15	401.79
GWC-52	417.13	408.06
GWC-53	435.83	425.80

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (Feet NAVD88) (certified 7/17/2020)	GROUNDWATER ELEVATION (Feet NAVD88)
		2/21/2023
CELL 3		
GWA-39	457.62	431.32
GWA-40	463.84	431.13
GWA-41	434.12	423.49
GWA-42	405.19	400.71
GWA-43	400.94	397.13
GWA-44A	399.62	395.98
GWA-54	451.49	425.80
GWC-30	394.49	388.99
GWC-31	392.78	387.63
GWC-32	410.03	387.03
GWC-33A	393.96	384.61
GWC-34	389.29	382.13
GWC-35	387.90	383.37
GWC-36	425.12	393.76
GWC-37	429.80	406.89
GWC-38	418.68	407.82

Notes:

Feet NAVD88 = Elevation in feet referenced to North American Vertical Datum of 1988

NM = Not Measured

TABLE 4
HORIZONTAL GROUNDWATER VELOCITY CALCULATIONS
ASH POND 1 - FEBRUARY 2023
Georgia Power Company- Plant Scherer
Juliette, GA

Flow Paths	Groundwater Elevation (feet msl)	Δ H (feet)	Δ L (feet)	Hydraulic Gradient (Δ H/Δ L)	Average Hydraulic Conductivity, K (feet per day)	Assumed Effective Porosity (n_e)	Average Linear Groundwater Velocity	
							(feet per day)	(feet per year)
AP-1 February 2023								
SGWC-14/PZ-29S	466.17 461.48	4.69	400	0.012	1.31 to 2.36	0.2	0.08 to 0.14	28 to 50
SGWC-13/PZ-35I	478.28 471.38	6.90	400	0.017	1.31 to 2.36	0.2	0.11 to 0.20	41 to 74
SGWC-20/PZ-43S	491.98 474.10	17.88	468	0.038	1.31 to 2.36	0.2	0.25 to 0.45	91 to 165

Notes:

1. Δ H = Change in groundwater elevation
2. Δ L = Distance along flow path
3. I = Δ H / Δ L
4. Velocity = $(I * K)/n_e$
5. Hydraulic conductivity range based on historic aquifer performance tests (revised 3/2017)
6. Effective porosity based on default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996)

TABLE 5
ANALYTICAL DATA SUMMARY - FEBRUARY 2023
Georgia Power Company - Plant Scherer
Juliette, Georgia

Analyte	Units	DETECTION MONITORING WELLS														
		SGWA-1	SGWA-2	SGWA-3	SGWA-4	SGWA-5	SGWA-24	SGWA-25	SGWC-6	SGWC-7	SGWC-8	SGWC-9	SGWC-10	SGWC-11	SGWC-12	SGWC-13
		2/21/2023	2/22/2023	2/21/2023	2/22/2023	2/21/2023	2/23/2023	2/23/2023	2/22/2023	2/22/2023	2/22/2023	2/22/2023	2/22/2023	2/22/2023	2/23/2023	2/23/2023
Appendix III																
BORON, TOTAL	mg/L	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	0.18	0.1	< 0.060	0.064 J	0.11	1.6	0.28	0.75	0.079 J	0.69
CALCIUM, TOTAL	mg/L	2.2	11	6.4	20	1.8	17	9.6	10	15	41	36	2.2	1.7	21	20
CHLORIDE, TOTAL	mg/L	2 .0	1.5	2.3	1.6	2 .0	3.3	1.9	2.3	3.6	18	18	9.0	9.9	9.6	11
FLUORIDE, TOTAL	mg/L	0.048 J	0.07 J	0.041 J	0.6	0.039 J	0.074 J	0.075 J	0.11	0.16	0.52	0.076 J	0.045 J	0.063 J	0.089 J	0.077 J
pH	S.U.	5.28	6.85	5.82	6.36	5.6	6.33	6.04	6.28	6.51	6.51	6.14	5.23	5.1	6.04	5.94
SULFATE, TOTAL	mg/L	1.3	1.4	1.6	1.4	1.2	1.6	1.3	1.4	6.7	52	200	18	3.1	57	96
TOTAL DISSOLVED SOLIDS	mg/L	41	100	55	120	65	130	90	120	170	350	430	56	41	220	230
Appendix IV																
ANTIMONY, TOTAL	mg/L	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097
ARSENIC, TOTAL	mg/L	< 0.00028	< 0.00028	< 0.00028	0.00029 J	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
BARIUM, TOTAL	mg/L	0.049	0.038	0.045	0.078	0.012	0.028	0.026	0.12	0.22	0.13	0.044	0.038	0.044	0.058	0.035
BERYLLIUM, TOTAL	mg/L	0.00036 J	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027
CADMIUM, TOTAL	mg/L	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
CHROMIUM, TOTAL	mg/L	0.0025	0.015	0.023	0.0058	0.0017 J	0.0058	0.0025	< 0.0015	< 0.0015	0.0023	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
COBALT, TOTAL	mg/L	0.00071 J	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	0.0003 J	0.0014 J	< 0.00026	0.00062 J	0.025	0.023	0.0014 J	0.0016 J
FLUORIDE, TOTAL	mg/L	0.048 J	0.07 J	0.041 J	0.6	0.039 J	0.074 J	0.075 J	0.11	0.16	0.52	0.076 J	0.045 J	0.063 J	0.089 J	0.077 J
LEAD, TOTAL	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
LITHIUM, TOTAL	mg/L	0.0022 J	< 0.0013	< 0.0013	< 0.0013	0.002 J	0.0022 J	0.002 J	< 0.0013	0.0056	0.0014 J	< 0.0013	< 0.0013	0.0024 J	< 0.0013	< 0.0013
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061
RADIUM (226 + 228)	pCi/L	0.00883 U	-0.0355 U	0.324 U	0.0211 U	0.575 U	0.355 U	-0.132 U	0.0662 U	-0.191 U	0.866	0.473 U	0.285 U	-0.172 U	0.784	0.506 U
SELENIUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
THALLIUM, TOTAL	mg/L	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047
Additional Parameters																
ALKALINITY , BICARBONATE	mg/L	14	69	45	110	31	110	64	75	130	260	82	18	12	83	24
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	14	69	45	110	31	110	64	75	130	260	82	18	12	83	24
MAGNESIUM	mg/L	0.95	6	5.3	7.1	0.59	8.2	6.4	4.5	9.4	24	22	6.4	1.4	12	7.7
MANGANESE	mg/L	0.099	< 0.0013	< 0.0013	< 0.0013	0.0036 J	0.015	0.0087	0.053	0.12	< 0.0013	0.091	0.49	0.58	0.56	0.093
POTASSIUM	mg/L	0.71	0.93	1.1	1.7	0.52	1	0.69	0.87	3.9	1.1	0.51	0.34 J	0.33 J	0.66	1.1
SODIUM	mg/L	3.1	4.5	4.5	9.1	11	6.9	4.4	11	16	36	45	5.7	7.7	16	26
SULFIDE	mg/L	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
IRON, TOTAL	mg/L	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	0.16	0.098	0.23	0.21	< 0.028	< 0.028	0.12	0.14	1.3	0.33
FERROUS (II)	mg/L	0.5	0	0	0	0	0	0	0	0	0	0	0	0.5	1.5	0
FERRIC (III)	mg/L	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	0.16	0.098	0.23	0.21	< 0.0061	0.12	0.14	< 0.0061	< 0.0061	33

NOTES:

1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the MDL.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
7. -- - Supplemental data not required.

TABLE 5
ANALYTICAL DATA SUMMARY - FEBRUARY 2023
Georgia Power Company - Plant Scherer
Juliette, Georgia

Analyte	Units	DETECTION MONITORING WELLS									
		SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
		2/23/2023	2/23/2023	2/23/2023	2/22/2023	2/22/2023	2/22/2023	2/22/2023	2/23/2023	2/23/2023	2/23/2023
Appendix III											
BORON, TOTAL	mg/L	1.7	2.2	0.87	0.34	8.1	2	1.7	1.3	0.63	0.81
CALCIUM, TOTAL	mg/L	37	14	1.3	56	41	38	14	34	34	22
CHLORIDE, TOTAL	mg/L	12	11	9.8	8.1	13	10	8.8	8.9	11	12
FLUORIDE, TOTAL	mg/L	0.068 J	0.11	0.045 J	0.06 J	0.061 J	0.046 J	0.13	0.087 J	0.075 J	0.089 J
pH	S.U.	5.72	4.59	5.13	6.23	5	5.53	4.38	6.19	5.72	6
SULFATE, TOTAL	mg/L	210	190	55	230	790	260	230	120	120	64
TOTAL DISSOLVED SOLIDS	mg/L	390	300	130	470	1200	440	350	350	260	210
Appendix IV											
ANTIMONY, TOTAL	mg/L	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097
ARSENIC, TOTAL	mg/L	< 0.00028	0.0012	< 0.00028	< 0.00028	0.0015	< 0.00028	0.00046 J	< 0.00028	< 0.00028	< 0.00028
BARIUM, TOTAL	mg/L	0.038	0.023	0.035	0.024	0.0098 J	0.022	0.018	0.1	0.082	0.06
BERYLLIUM, TOTAL	mg/L	< 0.00027	0.00038 J	< 0.00027	< 0.00027	< 0.00027	< 0.00027	0.00044 J	< 0.00027	< 0.00027	< 0.00027
CADMIUM, TOTAL	mg/L	< 0.00022	0.00023 J	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
CHROMIUM, TOTAL	mg/L	< 0.0015	0.029	0.012	0.0084	0.0096	0.013	< 0.0015	< 0.0015	< 0.0015	0.0016 J
COBALT, TOTAL	mg/L	0.0047	0.23	0.0056	0.00043 J	0.072	< 0.00026	0.082	< 0.00026	0.00069 J	< 0.00026
FLUORIDE, TOTAL	mg/L	0.068 J	0.11	0.045 J	0.06 J	0.061 J	0.046 J	0.13	0.087 J	0.075 J	0.089 J
LEAD, TOTAL	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
LITHIUM, TOTAL	mg/L	< 0.0013	0.0022 J	< 0.0013	< 0.0013	0.0035 J	0.0015 J	0.0025 J	< 0.0013	0.0019 J	0.0042 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	0.00062 J
RADIUM (226 + 228)	pCi/L	0.0406 U	0.0665 U	0.183 U	0.0917 U	0.0285 U	0.297 U	0.154 U	0.526 U	0.322 U	0.314 U
SELENIUM, TOTAL	mg/L	< 0.00074	< 0.00074	0.00093 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00075 J
THALLIUM, TOTAL	mg/L	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047
Additional Parameters											
ALKALINITY , BICARBONATE	mg/L	20	< 5.0	7.7	80	< 5.0	11	< 5.0	150	57	68
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	20	< 5.0	7.7	80	< 5.0	11	< 5.0	150	57	68
MAGNESIUM	mg/L	18	13	0.75	28	18	18	12	12	16	10
MANGANESE	mg/L	0.16	3.1	0.031	0.028	0.64	0.031	1.2	0.044	0.15	< 0.0013
POTASSIUM	mg/L	1.7	4.3	0.61	0.44 J	3	1.8	3.6	1.5	2.9	1.6
SODIUM	mg/L	24	41	30	23	320	45	62	55	20	23
SULFIDE	mg/L	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	100	< 2.1
IRON, TOTAL	mg/L	0.086	0.028 J	< 0.028	0.29	< 0.028	< 0.028	< 0.028	0.053	0.22	< 0.028
FERROUS (II)	mg/L	0	0	0	0	0	0	0	0	0	0
FERRIC (III)	mg/L	0.086	0.028 J	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	0.053	0.22	< 0.0061

NOTES:

1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the MDL.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
7. -- - Supplemental data not required.

TABLE 5
ANALYTICAL DATA SUMMARY - FEBRUARY 2023
Georgia Power Company - Plant Scherer
Juliette, Georgia

Analyte	Units	ASSESSMENT MONITORING WELLS										SUPPLEMENTAL WELLS	
		PZ-13S	PZ-14S	PZ-17I	PZ-39S	PZ-40I	PZ-41S	PZ-42I	PZ-43S	PZ-44I	PZ-69I	PZ-25S	PZ-25I
		2/23/2023	2/23/2023	2/23/2023	2/24/2023	2/24/2023	2/23/2023	2/23/2023	2/24/2023	2/28/2023	2/24/2023	2/27/2023	2/27/2023
Appendix III													
BORON, TOTAL	mg/L	< 0.060	< 0.060	0.2	0.51	4.2	3.8	3	1.1	< 0.060	0.76	< 0.060	< 0.060
CALCIUM, TOTAL	mg/L	4.2	4.6	38	26	150	140	70	61	21	48	1.2	26
CHLORIDE, TOTAL	mg/L	10	4.8	7.4	6.9	8.9	8.1	13	7.8	2.7	9.2	4.4	4.5
FLUORIDE, TOTAL	mg/L	0.042 J	0.043 J	0.049 J	0.062 J	0.047 J	0.06 J	0.079 J	0.042 J	0.034 J	0.083 J	0.052 J	0.057 J
pH	S.U.	5.14	5.4	6.73	6.67	6.16	5.91	6.36	6.97	6.54	6.54	4.84	--
SULFATE, TOTAL	mg/L	1.6	1.1	120	45	700	660	260	160	1.7	100	2.1	2
TOTAL DISSOLVED SOLIDS	mg/L	51	59	260	160	1100	950	490	330	120	290	17	150
Appendix IV													
ANTIMONY, TOTAL	mg/L	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097	0.0022	--
ARSENIC, TOTAL	mg/L	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.0007 J	< 0.00028	--
BARIUM, TOTAL	mg/L	0.049	0.036	0.062	0.045	0.039	0.026	0.052	0.076	0.008 J	0.16	0.023	--
BERYLLIUM, TOTAL	mg/L	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	--
CADMIUM, TOTAL	mg/L	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	--
CHROMIUM, TOTAL	mg/L	0.0034	0.0022	0.0042	0.03	< 0.0015	0.0059	< 0.0015	0.002	< 0.0015	< 0.0015	0.0028	--
COBALT, TOTAL	mg/L	0.0057	< 0.00026	< 0.00026	< 0.00026	0.0014 J	0.0004 J	< 0.00026	< 0.00026	0.0019 J	0.0021 J	0.02	0.00082 J
FLUORIDE, TOTAL	mg/L	0.042 J	0.043 J	0.049 J	0.062 J	0.047 J	0.06 J	0.079 J	0.042 J	0.034 J	0.083 J	0.052 J	0.057 J
LEAD, TOTAL	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	--
LITHIUM, TOTAL	mg/L	0.0033 J	0.0022 J	0.0016 J	0.0071	0.011	< 0.0013	0.0064	0.0046 J	0.014	0.0026 J	0.0036 J	--
MERCURY, TOTAL	mg/L	0.00015 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	--
MOLYBDENUM, TOTAL	mg/L	< 0.00061	< 0.00061	< 0.00061	0.0011 J	< 0.00061	< 0.00061	0.0066 J	< 0.00061	< 0.00061	0.00069 J	< 0.00061	--
RADIUM (226 + 228)	pCi/L	-0.0151 U	0.413 U	0.255 U	0.131 U	0.714	0.168 U	0.651	0.602	-0.0607 U	-0.097 U	0.442	--
SELENIUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	0.0019 J	< 0.00074	0.0071	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00092 J	--
THALLIUM, TOTAL	mg/L	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	< 0.00047	--
Additional Parameters													
ALKALINITY , BICARBONATE	mg/L	17	23	66	79	27	16	89	61	110	110	< 5.0	130
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	17	23	66	79	27	16	89	61	110	110	< 5.0	130
MAGNESIUM	mg/L	1.6	2.9	16	11	62	52	27	14	10	12	0.43 J	14
MANGANESE	mg/L	0.061	0.0096	< 0.0013	0.13	0.28	0.0095	0.16	0.0031 J	0.13	1.9	--	--
POTASSIUM	mg/L	0.4 J	0.76	2.3	1.9	8.5	4.3	4.3	3.7	2.1	6	0.36 J	1.2
SODIUM	mg/L	5.1	2.1	12	7.6	58	56	28	12	5.4	17	3.9	5
SULFIDE	mg/L	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	--	--
IRON, TOTAL	mg/L	0.097	< 0.028	< 0.028	0.052	1.2	0.11	0.11	< 0.028	0.36	1.8	--	--
FERROUS (II)	mg/L	0	0	0	0	1.5	0	0	0	0	1.5	--	--
FERRIC (III)	mg/L	0.097	< 0.0061	< 0.0061	0.052	< 0.0061	0.11	0.11	< 0.0061	0.36	0.3	--	--

NOTES:

1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the MDL.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
7. -- - Supplemental data not required.

TABLE 6
SUMMARY OF BACKGROUND LEVELS AND GWPS
Georgia Power Company - Plant Scherer
Juliette, Georgia

Analyte	Units	Maximum Contaminant Level (MCL)	Regional Screening Level (RSL)	Site Specific Background February 2023[1]	GWPS[2] February 2023
Antimony	mg/L	0.006	--	0.0021	0.006
Arsenic	mg/L	0.01	--	0.0015	0.01
Barium	mg/L	2	--	0.078	2
Beryllium	mg/L	0.004	--	0.0025	0.004
Cadmium	mg/L	0.005	--	0.0025	0.005
Chromium	mg/L	0.1	--	0.023	0.1
Cobalt	mg/L	NA	0.006	0.02	0.02[3]
Fluoride	mg/L	4	--	0.16	4.0
Lead	mg/L	NA	0.015	0.001	0.015
Lithium	mg/L	NA	0.04	0.005	0.04
Mercury	mg/L	0.002	--	0.0005	0.002
Molybdenum	mg/L	NA	0.1	0.015	0.1
Radium (226 + 228)	pCi/L	5	--	1.54	5.0
Selenium	mg/L	0.05	--	0.005	0.05
Thallium	mg/L	0.002	--	0.001	0.002

Notes:
mg/L = milligrams per liter; pCi/L = picocuries per liter; NA = Not Available

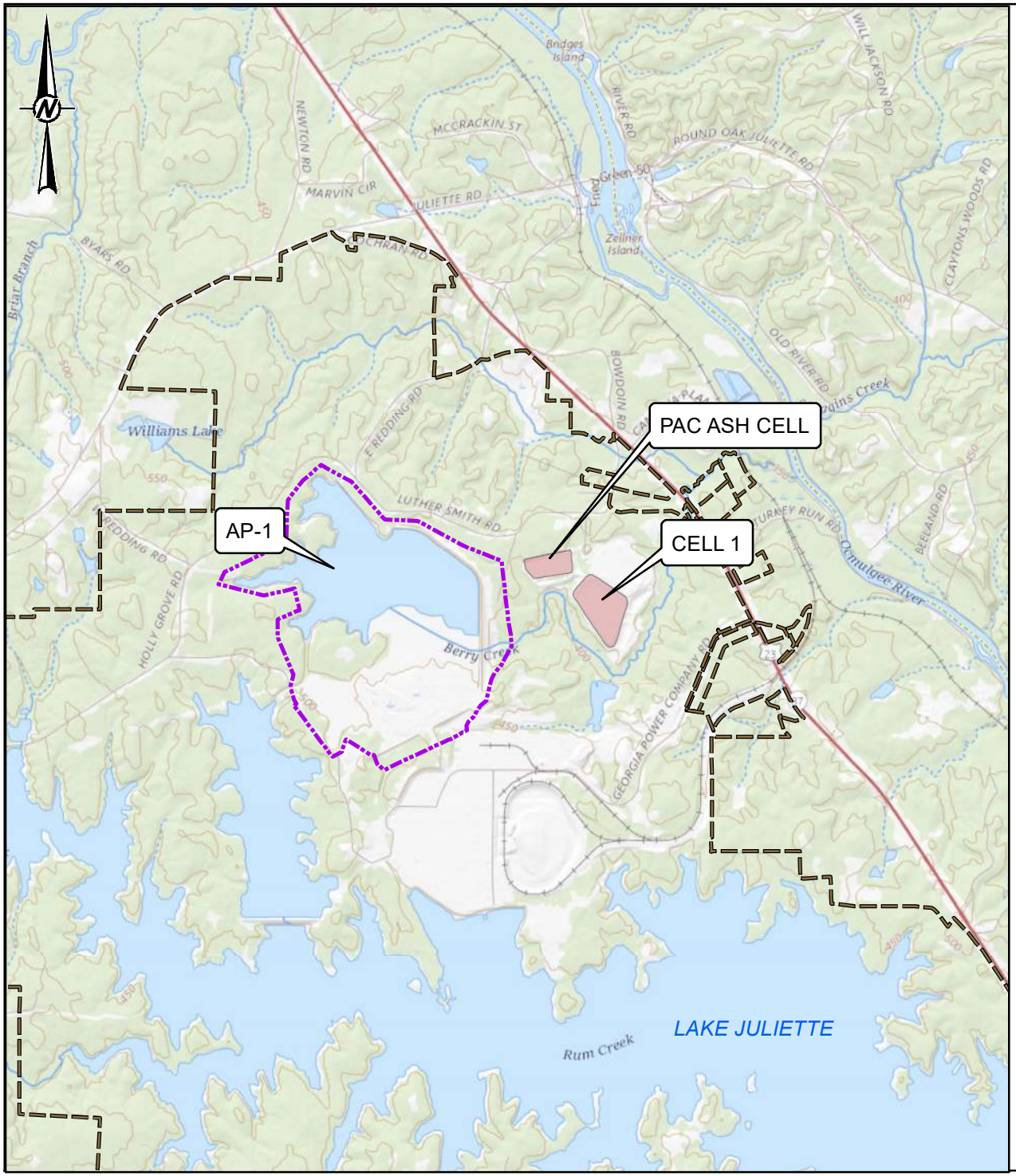
[1] The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).

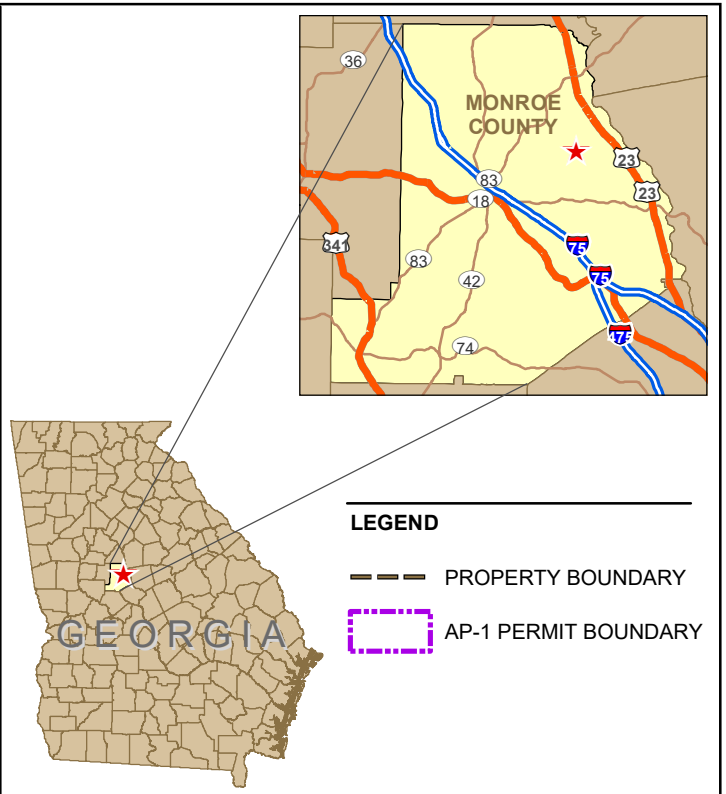
[2] Under existing EPD rules, the GWPS is: (i) The MCL established under 141.62 and 131.66 of this title, (ii) where an MCL has not been established the rule-specified GWPS, or (iii) background concentrations where the background level is higher than the MCL or rule-specified GWPS. On February 22, 2022, GA EPD adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.

[3] The background tolerance limit (TL) used to evaluate GWPS for this analyte equals the laboratory specified reporting limit (RL). Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used when the data set contains greater than 50% non-detect results for this analyte. Under this approach, the TL equals the highest value reported, for which is the laboratory RL. We also note that the values reported herein have been updated from the previously established GWPS which was determined based on estimated data. The modified GWPS also reflects additional outlier identification.

FIGURES

Path: H:\16x-Projects\1662350-Southern Company Services\figures\AE-HAR\166235021AE000-GIS.mxd





LEGEND

- PROPERTY BOUNDARY
- AP-1 PERMIT BOUNDARY

Service Layer Credits: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset,

0 4000 8000 Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PLANT SCHERER - ASH POND 1

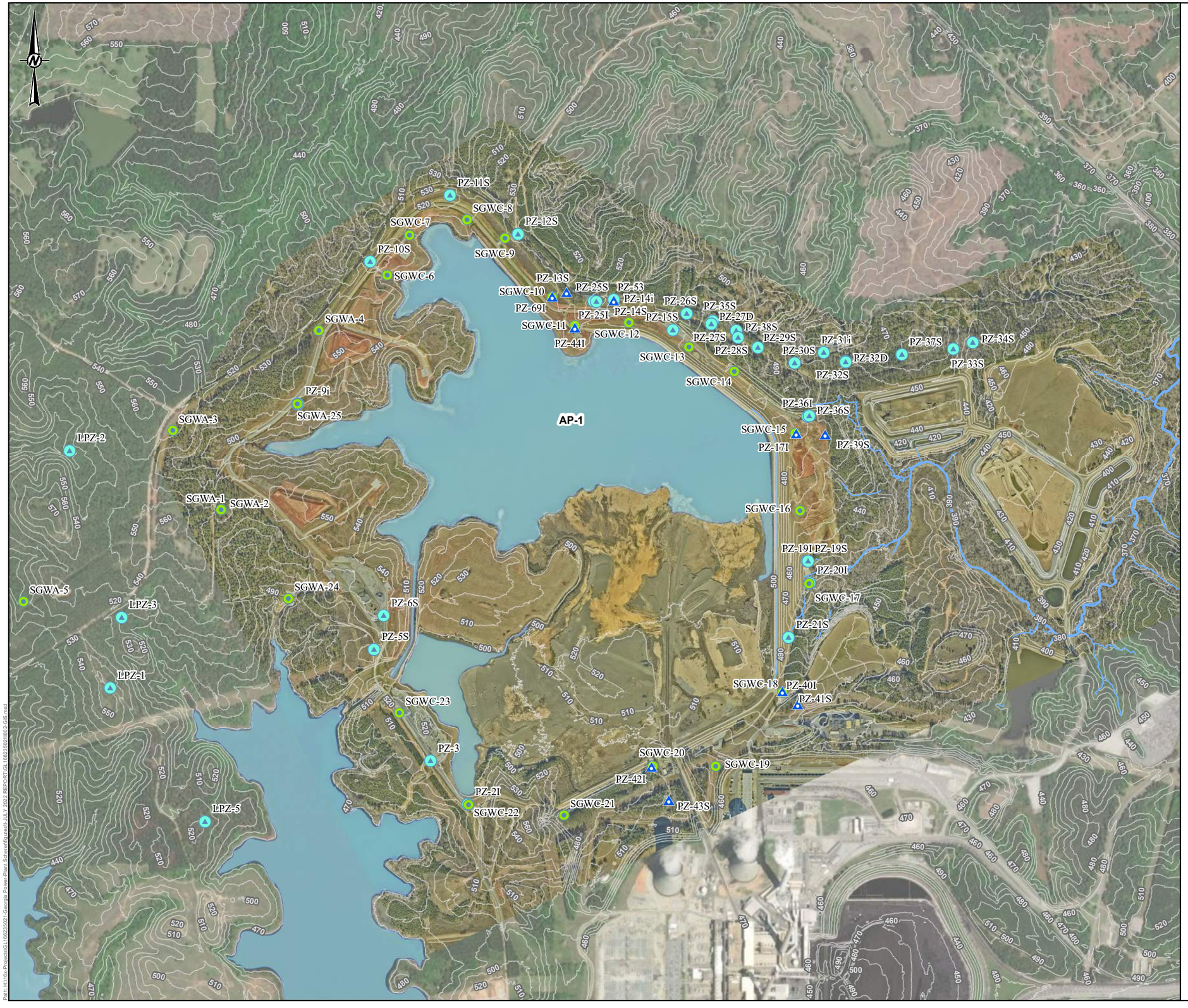
TITLE
SITE LOCATION MAP

CONSULTANT
wsp

YYYY-MM-DD	2021-08-03
PREPARED	DJC
DESIGN	DJC
CHECKED	DLP
REVIEWED/APPROVED	RPK

PROJECT No.	CONTROL	Rev.	FIGURE
166235022.000	166235021AE000-GIS.mxd	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI A
1 in
0



LEGEND

- MONITORING WELL LOCATION
- ASSESSMENT MONITORING WELL LOCATION
- PIEZOMETER LOCATION

NOTE

MONITORING WELL LOCATIONS PROVIDED BY JORDAN ENGINEERING.

REFERENCE

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).

2. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.

1200 600 0 1200

Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PLANT SCHERER ASH POND 1

TITLE
SITE PLAN, MONITORING WELL AND PIEZOMETER LOCATION MAP

CONSULTANT

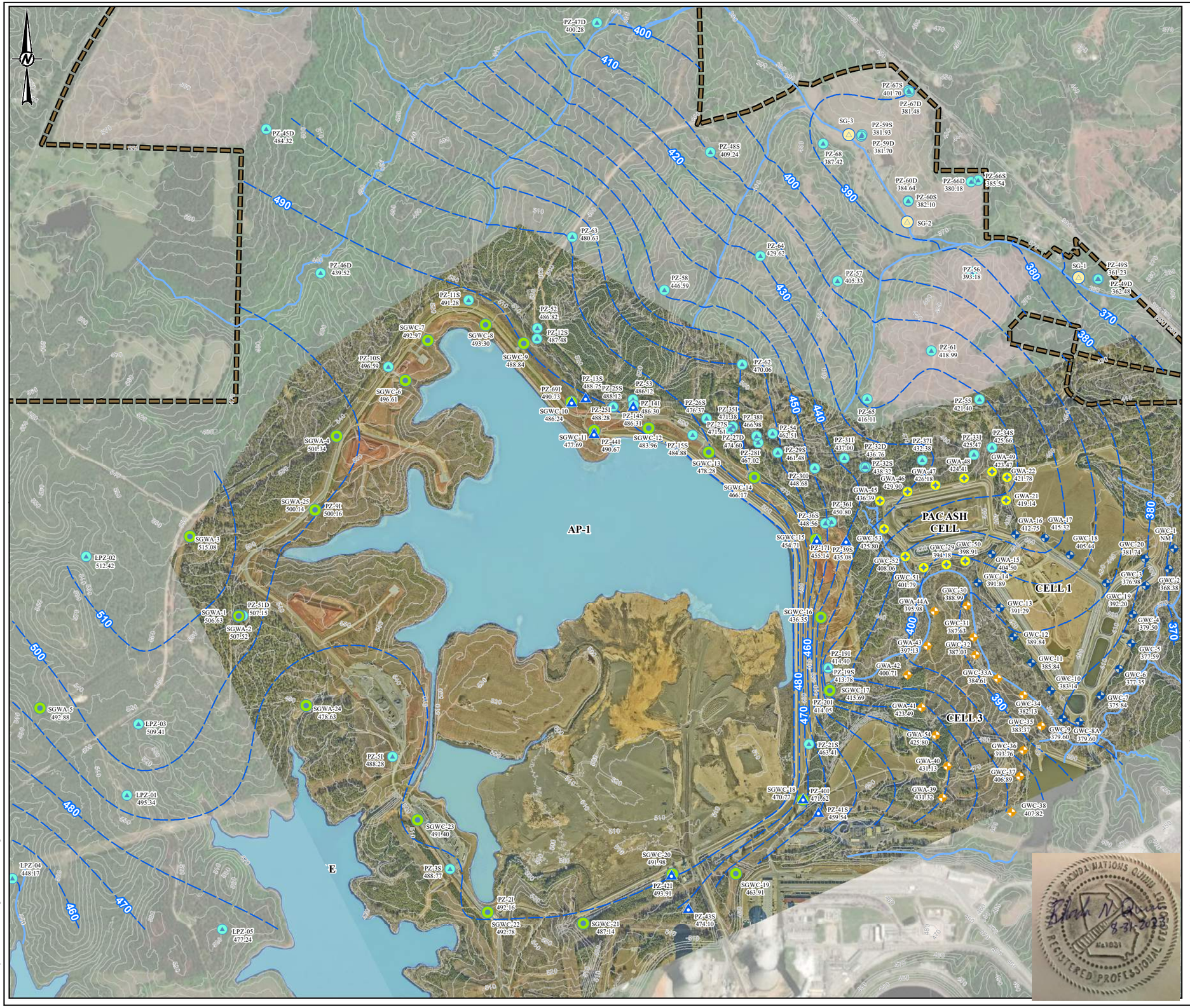
wsp

YYYY-MM-DD	2022-07-05
PREPARED	DJC
DESIGN	DLP
REVIEW	DLP
APPROVED	RPK

PROJECT No.	CONTROL	Rev.	FIGURE
GL166235021	GL166235021I002-GIS.mxd	0	**2**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B

Path: H:\16x-Projects\GL166235021-Georgia Power-Plant Scherer\figures\I-JULY 2022 REPORT\GL166235021I003-GIS.mxd



LEGEND

- SCHERER ASH POND-CCR MONITORING WELL
- CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- CELL 3 MONITORING WELL
- PIEZOMETER
- STREAM GAUGE LOCATION
- ASSESSMENT WELL LOCATION
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (FT-NAVD 88)
- STREAM
- PROPERTY BOUNDARY
- PONDS

NM ELEVATION NOT MEASURED

NOTES

1. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED FEBRUARY 21, 2023 BY GOLDER ASSOCIATES.
2. GROUNDWATER ELEVATIONS DISPLAYED IN FEET-NORTH AMERICAN VERTICAL DATUM (FT-NAVD 88).
3. DEEP AND INTERMEDIATE WELL GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.
4. PZ-50D IS NOT SHOWN; ITS LOCATION IS BEYOND THE MAPPED LIMITS.
5. PZ-46D* AND PZ-67D* WERE NOT USED FOR CONTOURING.

REFERENCE

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
2. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY JORDAN ENGINEERING.

1200 600 0 1200
Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

PROJECT
2023 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PLANT SCHERER - ASH POND 1

TITLE
POTENTIOMETRIC SURFACE MAP
FEBRUARY 21, 2023

CONSULTANT

YYYY-MM-DD	2023-03-16
PREPARED	DJC
DESIGN	DLP
REVIEW	DLP
APPROVED	RPK

PROJECT No. GL166235022 | CONTROL GL166235022N001-GIS.mxd | Rev. 0 | FIGURE 3

Path: H:\16x-Projects\GL\166235022-Georgia Power-Plant Scherer\figures\N-2023 GW MONITORING\GL-166235022N001-GIS.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B

APPENDIX A

Field Data Forms and Instrument Calibration Records

APPENDIX A

Field Data Forms

Low-Flow Test Report:

Test Date / Time: 2/21/2023 2:27:43 PM
Project: Plant Schere
Operator Name: Tiffany Mssier

Location Name: SCH-SGWA-1 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.02 ft** **Total Depth: 50.02 ft** **Initial Depth to Water: 40.26 m**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 44.6 ft** **Estimated Total Volume Pumped: 4081.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 90 ml/min** **Final Draw Down: -26.37 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Weather Conditions:
cloudy 75

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/21/2023 2:27 PM	00:00	5.30 pH	18.79 °C	36.23 µS/cm	1.51 mg/L	40.60 NTU	123.3 mV	132.09 ft	90.00 ml/min
2/21/2023 2:32 PM	05:00	5.29 pH	18.75 °C	35.70 µS/cm	1.43 mg/L	49.46 NTU	111.7 mV	40.63 ft	90.00 ml/min
2/21/2023 2:37 PM	10:00	5.28 pH	18.70 °C	35.55 µS/cm	1.40 mg/L	45.60 NTU	110.5 mV	45.60 ft	90.00 ml/min
2/21/2023 2:42 PM	15:00	5.28 pH	18.70 °C	35.43 µS/cm	1.39 mg/L	38.80 NTU	141.2 mV	45.55 ft	90.00 ml/min
2/21/2023 2:47 PM	20:00	5.28 pH	18.70 °C	35.36 µS/cm	1.39 mg/L	21.60 NTU	143.1 mV	45.56 ft	90.00 ml/min
2/21/2023 2:52 PM	25:00	5.28 pH	18.70 °C	35.09 µS/cm	1.37 mg/L	13.00 NTU	112.5 mV	45.56 ft	90.00 ml/min
2/21/2023 2:57 PM	30:00	5.28 pH	18.70 °C	35.02 µS/cm	1.37 mg/L	9.58 NTU	111.5 mV	45.57 ft	90.00 ml/min
2/21/2023 3:02 PM	35:00	5.28 pH	18.70 °C	34.92 µS/cm	1.36 mg/L	8.35 NTU	111.4 mV	45.57 ft	90.00 ml/min
2/21/2023 3:07 PM	40:00	5.28 pH	18.74 °C	34.76 µS/cm	1.34 mg/L	4.85 NTU	111.2 mV	45.57 ft	90.00 ml/min
2/21/2023 3:12 PM	45:00	5.28 pH	18.72 °C	34.76 µS/cm	1.33 mg/L	4.48 NTU	111.5 mV	45.57 ft	90.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWA-1	

Low-Flow Test Report:

Test Date / Time: 2/22/2023 8:33:44 AM
Project: Plant Scherer
Operator Name: Tiffany Messier

Location Name: SCH-SGWA-2 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 m** **Top of Screen: 81.05 m** **Total Depth: 98.5 ft** **Initial Depth to Water: 39.48 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 91.05 ft** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Extra Rads

Weather Conditions:
Cloudy 64

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/22/2023 8:33 AM	00:00	7.30 pH	17.81 °C	127.14 µS/cm	9.14 mg/L	2.22 NTU	141.3 mV	40.70 ft	200.00 ml/min
2/22/2023 8:38 AM	05:00	6.90 pH	18.16 °C	126.27 µS/cm	6.26 mg/L	1.79 NTU	100.1 mV	41.55 ft	250.00 ml/min
2/22/2023 8:43 AM	10:00	6.86 pH	18.15 °C	126.24 µS/cm	5.54 mg/L	1.79 NTU	92.8 mV	40.70 ft	250.00 ml/min
2/22/2023 8:48 AM	15:00	6.85 pH	18.16 °C	126.43 µS/cm	6.66 mg/L	1.18 NTU	90.4 mV	40.70 ft	250.00 ml/min
2/22/2023 8:53 AM	20:00	6.83 pH	18.17 °C	130.54 µS/cm	6.39 mg/L	0.65 NTU	89.2 mV	40.70 ft	250.00 ml/min
2/22/2023 8:58 AM	25:00	6.83 pH	18.17 °C	126.47 µS/cm	5.97 mg/L	0.74 NTU	88.1 mV	40.70 ft	250.00 ml/min
2/22/2023 9:03 AM	30:00	6.84 pH	18.19 °C	125.21 µS/cm	6.18 mg/L	0.86 NTU	88.0 mV	40.70 ft	250.00 ml/min
2/22/2023 9:08 AM	35:00	6.84 pH	18.20 °C	126.00 µS/cm	5.38 mg/L	1.11 NTU	88.6 mV	40.70 ft	250.00 ml/min
2/22/2023 9:13 AM	40:00	6.83 pH	18.25 °C	126.02 µS/cm	6.19 mg/L	1.17 NTU	87.0 mV	40.70 ft	250.00 ml/min
2/22/2023 9:18 AM	45:00	6.85 pH	18.23 °C	125.13 µS/cm	6.13 mg/L	1.17 NTU	86.4 mV	40.70 ft	250.00 ml/min
2/22/2023 9:23 AM	50:00	6.84 pH	18.26 °C	125.10 µS/cm	5.78 mg/L	1.18 NTU	87.0 mV	40.70 ft	250.00 ml/min
2/22/2023 9:28 AM	55:00	6.85 pH	18.28 °C	125.90 µS/cm	5.43 mg/L	1.16 NTU	85.4 mV	40.70 ft	250.00 ml/min
2/22/2023 9:33 AM	01:00:00	6.83 pH	18.30 °C	125.36 µS/cm	5.99 mg/L	1.18 NTU	85.4 mV	40.70 ft	250.00 ml/min

2/22/2023 9:38 AM	01:05:00	6.85 pH	18.35 °C	125.80 µS/cm	5.90 mg/L	1.17 NTU	85.5 mV	40.70 ft	250.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWA-2	Extra Rads 228

Low-Flow Test Report:

Test Date / Time: 2/21/2023 3:24:52 PM
Project: SCS Plant Scherer
Operator Name: Daniel Howard

Location Name: SCH-SGWA-3 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.82 ft** **Total Depth: 52.82 ft** **Initial Depth to Water: 30.75 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 44.9 ft** **Estimated Total Volume Pumped: 3850 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 12.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low flow. Sample time 1602.

Weather Conditions:
Partly cloudy, temp 75F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/21/2023 3:24 PM	00:00	5.84 pH	20.26 °C	89.97 µS/cm	4.51 mg/L	0.96 NTU	79.3 mV	30.75 ft	150.00 ml/min
2/21/2023 3:29 PM	05:00	5.82 pH	20.08 °C	88.67 µS/cm	4.14 mg/L	0.97 NTU	111.5 mV	32.78 ft	120.00 ml/min
2/21/2023 3:34 PM	10:00	5.82 pH	19.99 °C	87.33 µS/cm	4.12 mg/L	0.64 NTU	119.6 mV	33.24 ft	100.00 ml/min
2/21/2023 3:39 PM	15:00	5.81 pH	19.88 °C	86.36 µS/cm	4.14 mg/L	0.41 NTU	121.3 mV	33.45 ft	100.00 ml/min
2/21/2023 3:44 PM	20:00	5.81 pH	19.81 °C	86.07 µS/cm	4.06 mg/L	0.25 NTU	121.3 mV	33.71 ft	100.00 ml/min
2/21/2023 3:49 PM	25:00	5.81 pH	19.79 °C	85.94 µS/cm	4.02 mg/L	0.17 NTU	120.8 mV	33.87 ft	100.00 ml/min
2/21/2023 3:54 PM	30:00	5.81 pH	19.70 °C	85.80 µS/cm	3.98 mg/L	0.14 NTU	120.4 mV	34.04 ft	100.00 ml/min
2/21/2023 3:59 PM	35:00	5.82 pH	19.77 °C	86.05 µS/cm	3.93 mg/L	0.12 NTU	119.4 mV	34.12 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/22/2023 10:49:40 AM
Project: Plant Scherer
Operator Name: Tiffany Messier

Location Name: SCH-SGWA-4 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 m** **Top of Screen: 53.2 m** **Total Depth: 63.2 m** **Initial Depth to Water: 46.45 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 91.05 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3.38 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Weather Conditions:
Partly cloudy 69

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/22/2023 10:49 AM	00:00	6.44 pH	20.12 °C	191.13 µS/cm	6.74 mg/L	0.95 NTU	127.2 mV	47.70 ft	250.00 ml/min
2/22/2023 10:54 AM	05:00	6.39 pH	19.66 °C	191.66 µS/cm	6.79 mg/L	0.48 NTU	102.4 mV	49.12 ft	250.00 ml/min
2/22/2023 10:59 AM	10:00	6.37 pH	19.95 °C	189.00 µS/cm	6.26 mg/L	0.71 NTU	127.8 mV	49.50 ft	250.00 ml/min
2/22/2023 11:04 AM	15:00	6.37 pH	20.29 °C	188.19 µS/cm	6.05 mg/L	0.65 NTU	99.1 mV	49.66 ft	250.00 ml/min
2/22/2023 11:09 AM	20:00	6.37 pH	20.16 °C	189.08 µS/cm	6.23 mg/L	0.52 NTU	125.9 mV	49.80 ft	250.00 ml/min
2/22/2023 11:14 AM	25:00	6.36 pH	20.41 °C	189.47 µS/cm	6.18 mg/L	1.10 NTU	99.2 mV	49.83 ft	250.00 ml/min
2/22/2023 11:19 AM	30:00	6.36 pH	20.13 °C	188.98 µS/cm	6.16 mg/L	1.17 NTU	127.2 mV	49.83 ft	250.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWA	

Low-Flow Test Report:

Test Date / Time: 2/21/2023 2:32:04 PM
Project: SCS Plant Scherer SAGW 2023S1 (2)
Operator Name: D. Bloomfield

Location Name: SCH-SGWA-5 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.1 ft** **Total Depth: 33.1 ft** **Initial Depth to Water: 15.56 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 24.36 ft** **Estimated Total Volume Pumped: 9625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0.64 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/21/2023 2:32 PM	00:00	7.99 pH	24.15 °C	47.50 µS/cm	6.49 mg/L	2.63 NTU	95.9 mV	15.56 ft	350.00 ml/min
2/21/2023 2:37 PM	05:00	5.75 pH	18.95 °C	46.89 µS/cm	5.40 mg/L	0.76 NTU	113.0 mV	16.62 ft	210.00 ml/min
2/21/2023 2:42 PM	10:00	5.63 pH	18.66 °C	47.40 µS/cm	4.45 mg/L	0.95 NTU	117.1 mV	16.45 ft	210.00 ml/min
2/21/2023 2:47 PM	15:00	5.66 pH	18.59 °C	48.73 µS/cm	5.56 mg/L	0.96 NTU	142.6 mV	16.50 ft	210.00 ml/min
2/21/2023 2:52 PM	20:00	5.64 pH	18.61 °C	49.07 µS/cm	5.05 mg/L	0.41 NTU	119.5 mV	16.53 ft	210.00 ml/min
2/21/2023 2:57 PM	25:00	5.65 pH	18.61 °C	49.64 µS/cm	6.34 mg/L	0.44 NTU	117.4 mV	16.43 ft	210.00 ml/min
2/21/2023 3:02 PM	30:00	5.63 pH	18.61 °C	50.11 µS/cm	5.00 mg/L	0.26 NTU	117.5 mV	16.45 ft	175.00 ml/min
2/21/2023 3:07 PM	35:00	5.60 pH	18.70 °C	49.93 µS/cm	5.40 mg/L	0.26 NTU	119.1 mV	16.36 ft	175.00 ml/min
2/21/2023 3:12 PM	40:00	5.64 pH	18.72 °C	48.24 µS/cm	5.82 mg/L	0.23 NTU	118.1 mV	16.21 ft	175.00 ml/min
2/21/2023 3:17 PM	45:00	5.60 pH	18.71 °C	50.15 µS/cm	5.93 mg/L	0.37 NTU	118.1 mV	16.20 ft	175.00 ml/min

Samples

Sample ID:	Description:

SCH-SGWA-5	

Low-Flow Test Report:

Test Date / Time: 2/23/2023 10:29:48 AM
Project: Plant Schere (12)
Operator Name: Tiffany Mssier

Location Name: SCH-SGWA-24 **Well Diameter: 3 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.9 ft** **Total Depth: 42.9 ft** **Initial Depth to Water: 13.98 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 34.8 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Weather Conditions:
Partly cloudy 73

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/23/2023 10:29 AM	00:00	6.34 pH	20.89 °C	167.09 µS/cm	2.13 mg/L	2.65 NTU	84.4 mV	14.10 ft	250.00 ml/min
2/23/2023 10:34 AM	05:00	6.33 pH	21.06 °C	166.19 µS/cm	1.89 mg/L	3.67 NTU	79.0 mV	14.10 ft	250.00 ml/min
2/23/2023 10:39 AM	10:00	6.33 pH	21.11 °C	164.68 µS/cm	1.78 mg/L	3.33 NTU	102.4 mV	14.10 ft	250.00 ml/min
2/23/2023 10:44 AM	15:00	6.33 pH	21.69 °C	163.92 µS/cm	1.83 mg/L	4.04 NTU	109.7 mV	14.10 ft	250.00 ml/min
2/23/2023 10:49 AM	20:00	6.34 pH	22.01 °C	165.71 µS/cm	1.75 mg/L	3.82 NTU	83.0 mV	14.10 ft	250.00 ml/min
2/23/2023 10:54 AM	25:00	6.34 pH	22.62 °C	164.83 µS/cm	1.83 mg/L	2.89 NTU	83.8 mV	14.10 ft	250.00 ml/min
2/23/2023 10:59 AM	30:00	6.33 pH	22.85 °C	165.23 µS/cm	1.79 mg/L	2.52 NTU	110.4 mV	14.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWC-24	

Low-Flow Test Report:

Test Date / Time: 2/23/2023 8:48:29 AM
Project: Plant Scherer
Operator Name: Tiffany Messier

Location Name: SCH-SGWA-25 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38 ft** **Total Depth: 48 ft** **Initial Depth to Water: 26.42 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 39.75 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Weather Conditions:
Cloudy 68

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/23/2023 8:48 AM	00:00	7.02 pH	19.57 °C	110.55 µS/cm	7.28 mg/L	4.45 NTU	150.1 mV	26.52 ft	100.00 ml/min
2/23/2023 8:53 AM	05:00	6.22 pH	19.41 °C	110.11 µS/cm	3.64 mg/L	2.06 NTU	131.2 mV	26.52 ft	100.00 ml/min
2/23/2023 8:58 AM	10:00	6.10 pH	19.71 °C	108.85 µS/cm	2.86 mg/L	4.51 NTU	117.2 mV	26.50 ft	100.00 ml/min
2/23/2023 9:03 AM	15:00	6.05 pH	19.60 °C	111.29 µS/cm	4.02 mg/L	4.55 NTU	146.9 mV	26.49 ft	100.00 ml/min
2/23/2023 9:08 AM	20:00	6.03 pH	19.58 °C	98.06 µS/cm	2.20 mg/L	4.44 NTU	109.6 mV	26.49 ft	100.00 ml/min
2/23/2023 9:13 AM	25:00	6.04 pH	19.51 °C	108.40 µS/cm	2.14 mg/L	3.94 NTU	104.1 mV	26.49 ft	100.00 ml/min
2/23/2023 9:18 AM	30:00	6.05 pH	19.50 °C	108.63 µS/cm	2.14 mg/L	2.96 NTU	102.5 mV	26.49 ft	100.00 ml/min
2/23/2023 9:23 AM	35:00	6.04 pH	19.64 °C	108.81 µS/cm	2.18 mg/L	3.08 NTU	131.1 mV	26.49 ft	100.00 ml/min
2/23/2023 9:28 AM	40:00	6.04 pH	19.68 °C	108.78 µS/cm	2.24 mg/L	2.47 NTU	101.5 mV	26.49 ft	100.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWA-25	

Low-Flow Test Report:

Test Date / Time: 2/22/2023 12:25:17 PM
Project: Plant Scherer
Operator Name: Tiffany Messier

Location Name: SCH-SGWC-6 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.6 ft** **Total Depth: 27.6 ft** **Initial Depth to Water: 14.12 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 91.05 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/22/2023 12:25 PM	00:00	6.38 pH	23.40 °C	144.28 µS/cm	5.09 mg/L	1.07 NTU	85.8 mV	15.10 ft	100.00 ml/min
2/22/2023 12:30 PM	05:00	6.38 pH	24.89 °C	144.80 µS/cm	3.89 mg/L	2.82 NTU	91.2 mV	15.00 ft	100.00 ml/min
2/22/2023 12:35 PM	10:00	6.37 pH	25.26 °C	142.85 µS/cm	3.81 mg/L	1.50 NTU	91.2 mV	14.85 ft	100.00 ml/min
2/22/2023 12:40 PM	15:00	6.36 pH	26.09 °C	144.60 µS/cm	3.78 mg/L	0.66 NTU	90.8 mV	14.80 ft	100.00 ml/min
2/22/2023 12:45 PM	20:00	6.38 pH	22.97 °C	133.36 µS/cm	3.36 mg/L	0.64 NTU	118.1 mV	15.10 ft	100.00 ml/min
2/22/2023 12:50 PM	25:00	6.33 pH	19.95 °C	140.01 µS/cm	2.92 mg/L	0.53 NTU	91.8 mV	17.43 ft	100.00 ml/min
2/22/2023 12:55 PM	30:00	6.35 pH	19.77 °C	140.23 µS/cm	3.00 mg/L	0.41 NTU	87.1 mV	17.43 ft	100.00 ml/min
2/22/2023 1:00 PM	35:00	6.34 pH	19.81 °C	138.86 µS/cm	2.59 mg/L	1.14 NTU	85.7 mV	17.45 ft	100.00 ml/min
2/22/2023 1:05 PM	40:00	6.33 pH	19.81 °C	137.85 µS/cm	2.18 mg/L	1.79 NTU	84.6 mV	17.45 ft	100.00 ml/min
2/22/2023 1:10 PM	45:00	6.30 pH	19.37 °C	137.90 µS/cm	1.83 mg/L	1.77 NTU	106.5 mV	17.45 ft	100.00 ml/min
2/22/2023 1:15 PM	50:00	6.28 pH	19.90 °C	136.64 µS/cm	1.42 mg/L	1.79 NTU	83.8 mV	17.45 ft	100.00 ml/min
2/22/2023 1:20 PM	55:00	6.28 pH	19.86 °C	136.73 µS/cm	1.28 mg/L	1.77 NTU	102.4 mV	17.45 ft	100.00 ml/min

Samples

Sample ID:	Description:

SCH-SGWC-6	

Low-Flow Test Report:

Test Date / Time: 2/22/2023 3:01:13 PM
Project: Plant Scherer
Operator Name: Tiffany Messier

Location Name: SCH-SGWC-7 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.7 ft** **Total Depth: 37.7 ft** **Initial Depth to Water: 14.15 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 29.75 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/22/2023 3:01 PM	00:00	6.61 pH	22.85 °C	248.22 µS/cm	4.31 mg/L	2.80 NTU	40.4 mV	14.60 ft	200.00 ml/min
2/22/2023 3:06 PM	05:00	6.58 pH	21.77 °C	241.87 µS/cm	3.99 mg/L	1.29 NTU	49.4 mV	14.65 ft	200.00 ml/min
2/22/2023 3:11 PM	10:00	6.57 pH	21.73 °C	239.67 µS/cm	3.22 mg/L	0.96 NTU	58.7 mV	14.66 ft	200.00 ml/min
2/22/2023 3:16 PM	15:00	6.55 pH	21.68 °C	238.98 µS/cm	3.22 mg/L	0.84 NTU	62.1 mV	14.66 ft	200.00 ml/min
2/22/2023 3:21 PM	20:00	6.53 pH	21.66 °C	237.65 µS/cm	3.34 mg/L	1.94 NTU	65.1 mV	14.64 ft	200.00 ml/min
2/22/2023 3:26 PM	25:00	6.51 pH	21.69 °C	237.05 µS/cm	2.63 mg/L	2.24 NTU	60.4 mV	14.64 ft	200.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWC-7	

Low-Flow Test Report:

Test Date / Time: 2/22/2023 11:06:19 AM
Project: SCS Plant Scherer (3)
Operator Name: Daniel Howard

Location Name: SCH-SGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.6 ft** **Total Depth: 42.6 ft** **Initial Depth to Water: 21.16 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 34.2 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low flow. Sample time 1133.

Weather Conditions:
Partly cloudy, temp 70

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 11:06 AM	00:00	6.51 pH	23.61 °C	548.94 µS/cm	2.97 mg/L	0.50 NTU	156.3 mV	21.16 ft	200.00 ml/min
2/22/2023 11:11 AM	05:00	6.52 pH	20.23 °C	569.78 µS/cm	3.29 mg/L	0.44 NTU	124.5 mV	21.29 ft	200.00 ml/min
2/22/2023 11:16 AM	10:00	6.52 pH	20.03 °C	574.41 µS/cm	3.12 mg/L	0.46 NTU	114.7 mV	21.29 ft	200.00 ml/min
2/22/2023 11:21 AM	15:00	6.51 pH	19.90 °C	575.12 µS/cm	3.16 mg/L	0.32 NTU	108.3 mV	21.31 ft	200.00 ml/min
2/22/2023 11:26 AM	20:00	6.51 pH	19.99 °C	569.10 µS/cm	3.21 mg/L	0.31 NTU	105.6 mV	21.31 ft	200.00 ml/min
2/22/2023 11:31 AM	25:00	6.51 pH	19.70 °C	563.67 µS/cm	3.27 mg/L	0.19 NTU	131.7 mV	21.31 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/22/2023 9:13:46 AM
Project: SCS Plant Scherer (2)
Operator Name: Daniel Howard

Location Name: SCH-SGWC-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.8 ft** **Total Depth: 37.8 ft** **Initial Depth to Water: 21.74 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 29.4 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.56 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low flow

Weather Conditions:
Overcast, temp 60F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 9:13 AM	00:00	6.17 pH	18.91 °C	562.64 µS/cm	1.17 mg/L	1.22 NTU	168.9 mV	21.74 ft	200.00 ml/min
2/22/2023 9:18 AM	05:00	6.15 pH	18.68 °C	592.23 µS/cm	0.74 mg/L	0.44 NTU	331.2 mV	22.30 ft	200.00 ml/min
2/22/2023 9:23 AM	10:00	6.15 pH	18.70 °C	596.24 µS/cm	0.49 mg/L	0.33 NTU	293.0 mV	22.30 ft	200.00 ml/min
2/22/2023 9:28 AM	15:00	6.15 pH	18.69 °C	597.70 µS/cm	0.36 mg/L	0.25 NTU	296.0 mV	22.30 ft	200.00 ml/min
2/22/2023 9:33 AM	20:00	6.15 pH	18.73 °C	602.18 µS/cm	0.30 mg/L	0.18 NTU	290.5 mV	22.30 ft	200.00 ml/min
2/22/2023 9:38 AM	25:00	6.14 pH	18.80 °C	601.22 µS/cm	0.27 mg/L	0.22 NTU	273.1 mV	22.30 ft	200.00 ml/min
2/22/2023 9:43 AM	30:00	6.14 pH	18.82 °C	602.84 µS/cm	0.25 mg/L	0.11 NTU	238.3 mV	22.30 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/22/2023 1:54:39 PM
Project: SCS Plant Scherer SAGW S12023
Operator Name: Mark Mann

Location Name: SCH-SGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.6 ft** **Total Depth: 32.6 ft** **Initial Depth to Water: 18.84 ft**	**Pump Type: Dedicated Bladded** **Tubing Type: LDPE** **Pump Intake From TOC: 24.2 ft** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 2.27 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 1:54 PM	00:00	6.57 pH	27.58 °C	68.76 µS/cm	5.59 mg/L	2.09 NTU	108.2 mV	18.84 ft	250.00 ml/min
2/22/2023 1:59 PM	05:00	5.41 pH	21.64 °C	61.96 µS/cm	3.41 mg/L	3.62 NTU	146.9 mV	20.25 ft	250.00 ml/min
2/22/2023 2:04 PM	10:00	5.33 pH	21.20 °C	60.18 µS/cm	2.43 mg/L	2.52 NTU	219.3 mV	20.85 ft	230.00 ml/min
2/22/2023 2:09 PM	15:00	5.28 pH	20.99 °C	59.65 µS/cm	1.61 mg/L	1.11 NTU	196.5 mV	21.09 ft	230.00 ml/min
2/22/2023 2:14 PM	20:00	5.23 pH	21.29 °C	60.72 µS/cm	1.11 mg/L	1.04 NTU	242.2 mV	21.16 ft	230.00 ml/min
2/22/2023 2:19 PM	25:00	5.21 pH	21.35 °C	61.69 µS/cm	0.75 mg/L	0.98 NTU	188.9 mV	21.26 ft	230.00 ml/min
2/22/2023 2:24 PM	30:00	5.21 pH	21.41 °C	63.05 µS/cm	0.55 mg/L	0.50 NTU	172.0 mV	21.35 ft	230.00 ml/min
2/22/2023 2:29 PM	35:00	5.21 pH	21.23 °C	66.42 µS/cm	0.42 mg/L	0.51 NTU	155.1 mV	21.32 ft	230.00 ml/min
2/22/2023 2:34 PM	40:00	5.22 pH	21.51 °C	70.06 µS/cm	0.33 mg/L	0.83 NTU	143.9 mV	21.31 ft	210.00 ml/min
2/22/2023 2:39 PM	45:00	5.23 pH	21.47 °C	74.09 µS/cm	0.26 mg/L	0.84 NTU	138.9 mV	21.35 ft	230.00 ml/min
2/22/2023 2:44 PM	50:00	5.23 pH	21.41 °C	77.76 µS/cm	0.22 mg/L	0.71 NTU	136.9 mV	21.35 ft	230.00 ml/min
2/22/2023 2:49 PM	55:00	5.23 pH	21.39 °C	81.69 µS/cm	0.19 mg/L	0.80 NTU	135.4 mV	21.31 ft	230.00 ml/min
2/22/2023 2:54 PM	01:00:00	5.24 pH	21.73 °C	84.66 µS/cm	0.15 mg/L	0.44 NTU	134.8 mV	21.21 ft	210.00 ml/min

2/22/2023 2:59 PM	01:05:00	5.24 pH	21.73 °C	87.53 µS/cm	0.13 mg/L	0.36 NTU	133.8 mV	21.16 ft	210.00 ml/min
2/22/2023 3:04 PM	01:10:00	5.23 pH	21.65 °C	88.19 µS/cm	0.13 mg/L	0.29 NTU	134.5 mV	21.11 ft	210.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWC-10	
SCH-AP1-FD-1	

Low-Flow Test Report:

Test Date / Time: 2/22/2023 1:55:10 PM
Project: SCS Plant Scherer (4)
Operator Name: Daniel Howard

Location Name: SCH-SGWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.7 ft** **Total Depth: 42.7 ft** **Initial Depth to Water: 20.32 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 37.7 ft** **Estimated Total Volume Pumped: 4947.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 1.51 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low flow. Sample time 1430. Also collected duplicate sample SCH-AP1-FD-2.

Weather Conditions:
Partly sunny, temp 80F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 1:55 PM	00:00	5.25 pH	26.05 °C	61.16 µS/cm	1.39 mg/L	9.81 NTU	153.0 mV	20.32 ft	150.00 ml/min
2/22/2023 2:00 PM	05:00	5.15 pH	22.22 °C	60.20 µS/cm	0.93 mg/L	6.97 NTU	153.4 mV	21.66 ft	150.00 ml/min
2/22/2023 2:05 PM	10:00	5.14 pH	21.95 °C	60.26 µS/cm	0.88 mg/L	4.21 NTU	140.6 mV	21.75 ft	150.00 ml/min
2/22/2023 2:10 PM	15:00	5.13 pH	21.50 °C	60.62 µS/cm	0.91 mg/L	3.60 NTU	130.6 mV	20.80 ft	150.00 ml/min
2/22/2023 2:15 PM	20:00	5.11 pH	21.83 °C	61.32 µS/cm	0.86 mg/L	2.13 NTU	124.9 mV	21.83 ft	150.00 ml/min
2/22/2023 2:18 PM	22:59	5.11 pH	21.91 °C	62.79 µS/cm	0.80 mg/L	1.76 NTU	120.8 mV	21.83 ft	150.00 ml/min
2/22/2023 2:23 PM	27:59	5.10 pH	21.90 °C	63.55 µS/cm	0.71 mg/L	1.05 NTU	124.1 mV	21.83 ft	150.00 ml/min
2/22/2023 2:28 PM	32:59	5.10 pH	21.83 °C	64.24 µS/cm	0.62 mg/L	1.04 NTU	125.8 mV	21.83 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 9:17:03 AM
Project: Plant Scherer
Operator Name: Ever Guillen, Robert Bolding

Location Name: SCH-SGWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.2 ft** **Total Depth: 50.2 ft** **Initial Depth to Water: 16.75 ft**	**Pump Type: Dedicated bladder pump** **Tubing Type: HDPE** **Pump Intake From TOC: 45.2 ft** **Estimated Total Volume Pumped: 15246.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sample time=1035

Weather Conditions:
Cool, cloudy, humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 9:17 AM	00:00	7.83 pH	24.22 °C	263.99 µS/cm	8.19 mg/L	3.86 NTU	178.6 mV	16.75 ft	200.00 ml/min
2/23/2023 9:22 AM	05:00	6.38 pH	19.09 °C	328.38 µS/cm	1.16 mg/L	2.31 NTU	73.1 mV	18.85 ft	200.00 ml/min
2/23/2023 9:27 AM	10:00	6.08 pH	19.50 °C	328.88 µS/cm	0.70 mg/L	1.29 NTU	79.1 mV	18.85 ft	200.00 ml/min
2/23/2023 9:29 AM	12:40	6.06 pH	20.75 °C	318.64 µS/cm	0.45 mg/L	1.03 NTU	78.1 mV	18.85 ft	200.00 ml/min
2/23/2023 9:34 AM	17:40	6.04 pH	20.24 °C	322.73 µS/cm	0.29 mg/L	0.77 NTU	75.5 mV	18.85 ft	200.00 ml/min
2/23/2023 9:49 AM	31:59	6.03 pH	21.26 °C	317.96 µS/cm	0.26 mg/L	0.83 NTU	64.5 mV	18.85 ft	200.00 ml/min
2/23/2023 9:55 AM	38:39	6.04 pH	21.59 °C	317.57 µS/cm	0.25 mg/L	0.73 NTU	63.0 mV	18.85 ft	200.00 ml/min
2/23/2023 10:00 AM	43:02	6.05 pH	21.52 °C	314.27 µS/cm	0.45 mg/L	0.87 NTU	60.1 mV	18.85 ft	200.00 ml/min
2/23/2023 10:00 AM	43:56	6.04 pH	20.92 °C	316.76 µS/cm	0.78 mg/L	0.49 NTU	60.3 mV	18.85 ft	200.00 ml/min
2/23/2023 10:02 AM	45:39	6.05 pH	20.81 °C	316.40 µS/cm	0.99 mg/L	0.42 NTU	59.3 mV	18.85 ft	200.00 ml/min
2/23/2023 10:07 AM	50:39	6.05 pH	19.88 °C	319.92 µS/cm	1.25 mg/L	0.47 NTU	56.9 mV	18.85 ft	200.00 ml/min
2/23/2023 10:10 AM	53:34	6.06 pH	20.39 °C	316.94 µS/cm	1.26 mg/L	0.52 NTU	58.8 mV	18.85 ft	200.00 ml/min
2/23/2023 10:13 AM	56:14	6.06 pH	21.02 °C	320.76 µS/cm	1.66 mg/L	0.48 NTU	60.7 mV	18.85 ft	200.00 ml/min

2/23/2023 10:18 AM	01:01:14	6.07 pH	21.70 °C	319.77 µS/cm	1.51 mg/L	0.41 NTU	65.3 mV	18.85 ft	200.00 ml/min
2/23/2023 10:23 AM	01:06:14	6.05 pH	20.36 °C	322.42 µS/cm	0.51 mg/L	0.99 NTU	68.4 mV	18.85 ft	200.00 ml/min
2/23/2023 10:28 AM	01:11:14	6.05 pH	20.69 °C	320.72 µS/cm	0.47 mg/L	0.93 NTU	68.0 mV	18.85 ft	200.00 ml/min
2/23/2023 10:33 AM	01:16:14	6.04 pH	20.88 °C	321.21 µS/cm	0.41 mg/L	0.70 NTU	69.7 mV	18.85 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 12:30:28 PM
Project: Plant Scherer
Operator Name: Ever Guillen

Location Name: SCH-SGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.5 ft** **Total Depth: 37.5 ft** **Initial Depth to Water: 4.52 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 32.5 ft** **Estimated Total Volume Pumped: 7490 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sample time =1310

Weather Conditions:
Cool,cloudy,humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 12:30 PM	00:00	6.09 pH	24.59 °C	348.78 µS/cm	3.00 mg/L	7.96 NTU	106.1 mV	4.52 ft	200.00 ml/min
2/23/2023 12:35 PM	05:00	5.98 pH	26.26 °C	351.16 µS/cm	1.59 mg/L	6.05 NTU	103.3 mV	4.52 ft	200.00 ml/min
2/23/2023 12:40 PM	10:00	5.94 pH	25.45 °C	355.17 µS/cm	1.05 mg/L	4.78 NTU	109.3 mV	4.52 ft	200.00 ml/min
2/23/2023 12:45 PM	15:00	5.94 pH	25.95 °C	350.63 µS/cm	0.90 mg/L	3.21 NTU	102.7 mV	4.52 ft	200.00 ml/min
2/23/2023 12:50 PM	20:00	5.94 pH	24.92 °C	349.00 µS/cm	0.87 mg/L	2.41 NTU	109.0 mV	4.52 ft	200.00 ml/min
2/23/2023 12:55 PM	25:00	5.94 pH	25.04 °C	347.50 µS/cm	0.85 mg/L	1.66 NTU	102.2 mV	4.52 ft	200.00 ml/min
2/23/2023 12:57 PM	27:27	5.93 pH	25.22 °C	344.43 µS/cm	0.83 mg/L	1.49 NTU	103.2 mV	4.52 ft	200.00 ml/min
2/23/2023 1:02 PM	32:27	5.93 pH	24.28 °C	349.48 µS/cm	0.82 mg/L	0.97 NTU	109.5 mV	4.52 ft	200.00 ml/min
2/23/2023 1:07 PM	37:27	5.94 pH	24.27 °C	347.62 µS/cm	0.78 mg/L	0.92 NTU	102.2 mV	4.52 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 10:01:08 AM
Project: SCS Plant Scherer (5)
Operator Name: Daniel Howard

Location Name: SCH-SGWC-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.5 ft** **Total Depth: 38.5 ft** **Initial Depth to Water: 10.61 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 33.5 ft** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low flow. Sample time 1053.

Weather Conditions:
Overcast, temp 70F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 10:01 AM	00:00	6.28 pH	21.28 °C	476.85 µS/cm	1.73 mg/L	25.90 NTU	135.9 mV	10.61 ft	200.00 ml/min
2/23/2023 10:06 AM	05:00	5.92 pH	17.89 °C	510.76 µS/cm	0.43 mg/L	26.60 NTU	43.9 mV	10.64 ft	200.00 ml/min
2/23/2023 10:11 AM	10:00	5.82 pH	17.76 °C	511.81 µS/cm	0.45 mg/L	14.60 NTU	19.2 mV	10.64 ft	200.00 ml/min
2/23/2023 10:16 AM	15:00	5.79 pH	17.96 °C	511.82 µS/cm	0.17 mg/L	11.50 NTU	7.7 mV	10.64 ft	200.00 ml/min
2/23/2023 10:21 AM	20:00	5.77 pH	17.85 °C	514.15 µS/cm	0.12 mg/L	8.81 NTU	8.9 mV	10.64 ft	200.00 ml/min
2/23/2023 10:26 AM	25:00	5.76 pH	17.84 °C	515.60 µS/cm	0.09 mg/L	6.40 NTU	7.3 mV	10.64 ft	200.00 ml/min
2/23/2023 10:31 AM	30:00	5.75 pH	17.75 °C	515.50 µS/cm	0.09 mg/L	5.09 NTU	7.5 mV	10.64 ft	200.00 ml/min
2/23/2023 10:36 AM	35:00	5.74 pH	17.73 °C	517.69 µS/cm	0.08 mg/L	4.78 NTU	8.3 mV	10.64 ft	200.00 ml/min
2/23/2023 10:41 AM	40:00	5.74 pH	17.81 °C	517.34 µS/cm	0.08 mg/L	3.02 NTU	8.8 mV	10.64 ft	200.00 ml/min
2/23/2023 10:46 AM	45:00	5.73 pH	17.92 °C	517.20 µS/cm	0.08 mg/L	2.79 NTU	10.3 mV	10.64 ft	200.00 ml/min
2/23/2023 10:51 AM	50:00	5.72 pH	18.07 °C	517.16 µS/cm	0.08 mg/L	2.35 NTU	12.3 mV	10.64 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 12:22:14 PM
Project: SCS Plant Scherer (6)
Operator Name: Daniel Howard

Location Name: SCH-SGWC-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.2 ft** **Total Depth: 48.2 ft** **Initial Depth to Water: 28.02 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 43.2 ft** **Estimated Total Volume Pumped: 8760 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low flow. Sample time 1308.

Weather Conditions:
Partly sunny, temp 78F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 12:22 PM	00:00	4.69 pH	23.10 °C	458.40 µS/cm	2.99 mg/L	1.58 NTU	180.1 mV	28.02 ft	200.00 ml/min
2/23/2023 12:27 PM	05:00	4.61 pH	20.81 °C	475.81 µS/cm	1.32 mg/L	10.20 NTU	260.8 mV	28.05 ft	200.00 ml/min
2/23/2023 12:32 PM	10:00	4.63 pH	20.76 °C	477.80 µS/cm	1.02 mg/L	10.70 NTU	320.3 mV	28.05 ft	200.00 ml/min
2/23/2023 12:37 PM	15:00	4.59 pH	20.46 °C	480.84 µS/cm	0.97 mg/L	9.03 NTU	471.3 mV	28.05 ft	200.00 ml/min
2/23/2023 12:41 PM	18:48	4.58 pH	20.66 °C	476.39 µS/cm	0.78 mg/L	8.75 NTU	422.8 mV	28.05 ft	200.00 ml/min
2/23/2023 12:46 PM	23:48	4.58 pH	20.32 °C	482.90 µS/cm	0.66 mg/L	6.59 NTU	433.1 mV	28.05 ft	200.00 ml/min
2/23/2023 12:51 PM	28:48	4.58 pH	20.25 °C	483.44 µS/cm	0.61 mg/L	5.45 NTU	440.1 mV	28.05 ft	200.00 ml/min
2/23/2023 12:56 PM	33:48	4.58 pH	20.10 °C	484.20 µS/cm	0.58 mg/L	4.78 NTU	446.9 mV	28.05 ft	200.00 ml/min
2/23/2023 1:01 PM	38:48	4.58 pH	19.97 °C	484.92 µS/cm	0.56 mg/L	3.63 NTU	448.0 mV	28.05 ft	200.00 ml/min
2/23/2023 1:06 PM	43:48	4.59 pH	19.85 °C	483.49 µS/cm	0.55 mg/L	3.38 NTU	447.2 mV	28.05 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 2:41:31 PM
Project: SCS Plant Scherer (7)
Operator Name: Daniel Howard

Location Name: SCH-SGWC-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.3 ft** **Total Depth: 43.3 ft** **Initial Depth to Water: 24.01 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 38.3 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low flow. Sample time 1524.

Weather Conditions:
Partly cloudy, temp 79F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 2:41 PM	00:00	5.18 pH	21.11 °C	177.45 µS/cm	3.21 mg/L	21.50 NTU	281.6 mV	24.01 ft	200.00 ml/min
2/23/2023 2:46 PM	05:00	5.17 pH	19.80 °C	186.37 µS/cm	2.91 mg/L	26.00 NTU	246.5 mV	24.11 ft	200.00 ml/min
2/23/2023 2:51 PM	10:00	5.15 pH	19.60 °C	186.39 µS/cm	2.63 mg/L	21.00 NTU	230.1 mV	24.11 ft	200.00 ml/min
2/23/2023 2:56 PM	15:00	5.15 pH	19.52 °C	185.26 µS/cm	2.58 mg/L	16.00 NTU	247.5 mV	24.11 ft	200.00 ml/min
2/23/2023 3:01 PM	20:00	5.15 pH	19.47 °C	186.83 µS/cm	2.58 mg/L	10.00 NTU	212.7 mV	24.11 ft	200.00 ml/min
2/23/2023 3:06 PM	25:00	5.14 pH	19.41 °C	186.67 µS/cm	2.57 mg/L	5.71 NTU	203.1 mV	24.11 ft	200.00 ml/min
2/23/2023 3:11 PM	30:00	5.14 pH	19.41 °C	187.51 µS/cm	2.56 mg/L	4.18 NTU	197.3 mV	24.11 ft	200.00 ml/min
2/23/2023 3:16 PM	35:00	5.13 pH	19.50 °C	187.13 µS/cm	2.56 mg/L	3.23 NTU	192.2 mV	24.11 ft	200.00 ml/min
2/23/2023 3:21 PM	40:00	5.13 pH	19.47 °C	185.25 µS/cm	2.54 mg/L	1.98 NTU	211.3 mV	24.11 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/22/2023 1:20:33 PM
Project: SCS Plant Scherer
Operator Name: Dana Bloomfield

Location Name: SCH-SGWC-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.6 ft** **Total Depth: 24.6 ft** **Initial Depth to Water: 2.25 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 24.6 ft** **Estimated Total Volume Pumped: 9115 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.55 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 1:20 PM	00:00	6.15 pH	25.71 °C	579.67 µS/cm	2.63 mg/L	15.30 NTU	177.4 mV	2.25 ft	150.00 ml/min
2/22/2023 1:25 PM	05:00	6.22 pH	19.92 °C	641.74 µS/cm	0.55 mg/L	23.30 NTU	121.3 mV	2.73 ft	150.00 ml/min
2/22/2023 1:30 PM	10:00	6.22 pH	19.52 °C	638.76 µS/cm	0.29 mg/L	28.00 NTU	121.3 mV	2.76 ft	150.00 ml/min
2/22/2023 1:35 PM	15:00	6.22 pH	19.56 °C	637.14 µS/cm	0.26 mg/L	10.90 NTU	114.6 mV	2.76 ft	150.00 ml/min
2/22/2023 1:40 PM	20:00	6.22 pH	19.25 °C	636.47 µS/cm	0.26 mg/L	6.26 NTU	93.9 mV	2.80 ft	150.00 ml/min
2/22/2023 1:45 PM	25:00	6.22 pH	19.33 °C	635.29 µS/cm	0.24 mg/L	5.52 NTU	99.6 mV	2.80 ft	150.00 ml/min
2/22/2023 1:50 PM	30:00	6.23 pH	19.51 °C	629.56 µS/cm	0.20 mg/L	5.42 NTU	97.6 mV	2.80 ft	150.00 ml/min
2/22/2023 1:56 PM	35:46	6.22 pH	19.73 °C	629.30 µS/cm	0.18 mg/L	4.93 NTU	86.6 mV	2.80 ft	150.00 ml/min
2/22/2023 2:01 PM	40:46	6.22 pH	20.06 °C	628.68 µS/cm	0.17 mg/L	5.77 NTU	91.1 mV	2.80 ft	150.00 ml/min
2/22/2023 2:06 PM	45:46	6.22 pH	20.11 °C	628.29 µS/cm	0.16 mg/L	2.61 NTU	90.7 mV	2.80 ft	150.00 ml/min
2/22/2023 2:11 PM	50:46	6.22 pH	19.88 °C	628.66 µS/cm	0.15 mg/L	3.05 NTU	78.5 mV	2.80 ft	150.00 ml/min
2/22/2023 2:16 PM	55:46	6.22 pH	19.93 °C	629.48 µS/cm	0.15 mg/L	4.03 NTU	85.8 mV	2.80 ft	150.00 ml/min
2/22/2023 2:21 PM	01:00:46	6.23 pH	20.10 °C	626.56 µS/cm	0.14 mg/L	3.17 NTU	85.7 mV	2.80 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/22/2023 9:29:19 AM
Project: SCS Plant Scherer
Operator Name: Dana Bloomfield

Location Name: SCH-SGWC-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.6 ft** **Total Depth: 47.6 ft** **Initial Depth to Water: 42.35 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 47.6 ft** **Estimated Total Volume Pumped: 16839.232 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 118 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 9:29 AM	00:00	4.86 pH	21.71 °C	1,800.9 µS/cm	5.76 mg/L	422.00 NTU	234.9 mV	42.35 ft	220.00 ml/min
2/22/2023 9:34 AM	05:00	4.96 pH	20.69 °C	1,781.5 µS/cm	4.99 mg/L	307.00 NTU	203.7 mV	42.48 ft	118.00 ml/min
2/22/2023 9:39 AM	10:00	4.98 pH	20.50 °C	1,800.0 µS/cm	5.01 mg/L	176.00 NTU	211.3 mV	42.49 ft	118.00 ml/min
2/22/2023 9:44 AM	15:00	5.01 pH	20.46 °C	1,803.8 µS/cm	5.15 mg/L	133.00 NTU	203.0 mV	42.48 ft	118.00 ml/min
2/22/2023 9:49 AM	20:00	5.01 pH	20.42 °C	1,803.9 µS/cm	5.28 mg/L	87.20 NTU	195.9 mV	42.49 ft	118.00 ml/min
2/22/2023 9:54 AM	25:00	5.01 pH	20.42 °C	1,802.3 µS/cm	5.28 mg/L	58.00 NTU	190.3 mV	42.49 ft	118.00 ml/min
2/22/2023 9:59 AM	30:00	5.02 pH	20.42 °C	1,799.1 µS/cm	5.33 mg/L	36.80 NTU	167.6 mV	42.46 ft	118.00 ml/min
2/22/2023 10:04 AM	35:00	5.01 pH	20.64 °C	1,799.5 µS/cm	5.31 mg/L	37.80 NTU	162.0 mV	42.49 ft	118.00 ml/min
2/22/2023 10:09 AM	40:00	5.02 pH	20.73 °C	1,798.6 µS/cm	5.35 mg/L	23.70 NTU	174.4 mV	42.48 ft	118.00 ml/min
2/22/2023 10:14 AM	45:00	5.00 pH	20.73 °C	1,796.8 µS/cm	5.32 mg/L	16.30 NTU	157.6 mV	42.49 ft	118.00 ml/min
2/22/2023 10:19 AM	50:00	5.00 pH	21.43 °C	1,806.8 µS/cm	5.31 mg/L	12.50 NTU	169.3 mV	42.48 ft	118.00 ml/min
2/22/2023 10:24 AM	55:00	5.01 pH	21.84 °C	1,798.7 µS/cm	5.32 mg/L	139.00 NTU	153.9 mV	42.48 ft	118.00 ml/min
2/22/2023 10:29 AM	01:00:00	5.02 pH	22.88 °C	1,804.0 µS/cm	5.34 mg/L	34.70 NTU	151.3 mV	42.46 ft	118.00 ml/min
2/22/2023 10:34 AM	01:05:00	5.02 pH	23.99 °C	1,814.7 µS/cm	5.21 mg/L	15.60 NTU	165.5 mV	42.48 ft	118.00 ml/min
2/22/2023 10:39 AM	01:10:00	5.03 pH	23.45 °C	1,784.7 µS/cm	5.27 mg/L	8.73 NTU	150.9 mV	42.48 ft	118.00 ml/min

2/22/2023 10:44 AM	01:15:00	5.03 pH	22.56 °C	1,790.4 µS/cm	5.35 mg/L	8.15 NTU	162.7 mV	42.48 ft	118.00 ml/min
2/22/2023 10:49 AM	01:20:00	5.02 pH	21.21 °C	1,798.5 µS/cm	5.70 mg/L	10.90 NTU	147.7 mV	42.51 ft	118.00 ml/min
2/22/2023 10:54 AM	01:25:00	5.01 pH	21.31 °C	1,810.3 µS/cm	5.58 mg/L	5.53 NTU	160.3 mV	42.49 ft	118.00 ml/min
2/22/2023 10:59 AM	01:30:00	5.00 pH	21.72 °C	1,803.9 µS/cm	5.38 mg/L	4.83 NTU	146.7 mV	42.49 ft	118.00 ml/min
2/22/2023 11:04 AM	01:35:00	5.00 pH	22.18 °C	1,806.4 µS/cm	5.38 mg/L	3.46 NTU	145.3 mV	42.49 ft	118.00 ml/min
2/22/2023 11:09 AM	01:40:00	5.01 pH	22.16 °C	1,806.7 µS/cm	5.62 mg/L	2.96 NTU	158.9 mV	42.48 ft	118.00 ml/min
2/22/2023 11:14 AM	01:45:00	4.99 pH	21.93 °C	1,807.2 µS/cm	5.43 mg/L	2.42 NTU	160.3 mV	42.49 ft	118.00 ml/min
2/22/2023 11:19 AM	01:50:00	4.99 pH	21.94 °C	1,811.8 µS/cm	5.51 mg/L	2.38 NTU	146.2 mV	42.49 ft	118.00 ml/min
2/22/2023 11:24 AM	01:55:00	4.99 pH	23.11 °C	1,826.8 µS/cm	5.51 mg/L	2.09 NTU	159.6 mV	42.49 ft	118.00 ml/min
2/22/2023 11:29 AM	02:00:00	5.00 pH	23.99 °C	1,820.5 µS/cm	5.54 mg/L	1.85 NTU	161.1 mV	42.49 ft	118.00 ml/min
2/22/2023 11:34 AM	02:05:00	5.00 pH	23.31 °C	1,802.2 µS/cm	5.54 mg/L	1.74 NTU	146.4 mV	42.49 ft	118.00 ml/min
2/22/2023 11:39 AM	02:10:00	5.01 pH	23.75 °C	1,818.1 µS/cm	5.65 mg/L	1.55 NTU	159.8 mV	42.49 ft	118.00 ml/min
2/22/2023 11:44 AM	02:15:00	5.01 pH	23.81 °C	1,803.0 µS/cm	5.63 mg/L	1.34 NTU	146.3 mV	42.49 ft	118.00 ml/min
2/22/2023 11:45 AM	02:16:31	5.01 pH	23.41 °C	1,784.8 µS/cm	5.59 mg/L	1.36 NTU	144.8 mV	42.49 ft	118.00 ml/min
2/22/2023 11:47 AM	02:18:23	5.00 pH	22.93 °C	1,789.1 µS/cm	5.56 mg/L	1.34 NTU	142.6 mV	42.49 ft	118.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/22/2023 11:29:17 AM
Project: SCS Plant Scherer SAGW 2023S1 (4)
Operator Name: M. Mann

Location Name: SCH-SGWC-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.4 ft** **Total Depth: 37.4 ft** **Initial Depth to Water: 14.92 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 9066.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.48 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Weather Conditions:
sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 11:29 AM	00:00	6.06 pH	27.76 °C	448.56 µS/cm	5.51 mg/L	6.05 NTU	151.0 mV	14.92 ft	300.00 ml/min
2/22/2023 11:34 AM	05:00	5.71 pH	20.71 °C	605.02 µS/cm	3.34 mg/L	10.50 NTU	142.1 mV	15.98 ft	300.00 ml/min
2/22/2023 11:39 AM	10:00	5.64 pH	20.62 °C	587.02 µS/cm	2.77 mg/L	5.29 NTU	155.9 mV	15.75 ft	300.00 ml/min
2/22/2023 11:44 AM	15:00	5.59 pH	20.77 °C	587.70 µS/cm	2.49 mg/L	3.41 NTU	133.5 mV	15.49 ft	200.00 ml/min
2/22/2023 11:47 AM	18:39	5.56 pH	20.60 °C	620.75 µS/cm	2.45 mg/L	4.33 NTU	122.9 mV	15.43 ft	200.00 ml/min
2/22/2023 11:51 AM	22:32	5.55 pH	20.71 °C	620.30 µS/cm	2.45 mg/L	3.43 NTU	128.1 mV	15.43 ft	200.00 ml/min
2/22/2023 11:52 AM	22:50	5.55 pH	20.68 °C	614.69 µS/cm	2.45 mg/L	2.17 NTU	121.9 mV	15.42 ft	200.00 ml/min
2/22/2023 11:57 AM	27:50	5.54 pH	21.11 °C	584.45 µS/cm	2.48 mg/L	2.53 NTU	138.9 mV	15.38 ft	200.00 ml/min
2/22/2023 12:02 PM	32:50	5.53 pH	21.31 °C	588.73 µS/cm	2.47 mg/L	2.65 NTU	124.0 mV	15.44 ft	200.00 ml/min
2/22/2023 12:07 PM	37:50	5.53 pH	21.42 °C	583.76 µS/cm	2.48 mg/L	1.63 NTU	120.9 mV	15.40 ft	200.00 ml/min

Samples

Sample ID:	Description:

SCH-SGWC-19	

Low-Flow Test Report:

Test Date / Time: 2/22/2023 8:32:57 AM
Project: SCS Plant Scherer SAGW 2023S1 (3)
Operator Name: M. Mann

Location Name: SCH-SGWC-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.9 ft** **Total Depth: 27.9 ft** **Initial Depth to Water: 12.88 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 19.5 ft** **Estimated Total Volume Pumped: 19450 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.94 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/22/2023 8:32 AM	00:00	4.38 pH	18.59 °C	512.35 µS/cm	6.55 mg/L	1.08 NTU	215.7 mV	12.88 ft	400.00 ml/min
2/22/2023 8:37 AM	05:00	4.16 pH	20.05 °C	598.85 µS/cm	1.70 mg/L	0.79 NTU	300.1 mV	13.78 ft	120.00 ml/min
2/22/2023 8:42 AM	10:00	4.17 pH	19.59 °C	608.67 µS/cm	2.77 mg/L	0.39 NTU	266.5 mV	13.46 ft	120.00 ml/min
2/22/2023 8:47 AM	15:00	4.20 pH	19.99 °C	599.82 µS/cm	1.46 mg/L	0.44 NTU	270.2 mV	13.49 ft	200.00 ml/min
2/22/2023 8:52 AM	20:00	4.22 pH	19.80 °C	590.33 µS/cm	2.48 mg/L	0.30 NTU	276.8 mV	13.71 ft	200.00 ml/min
2/22/2023 8:57 AM	25:00	4.26 pH	19.91 °C	589.34 µS/cm	1.69 mg/L	0.28 NTU	276.7 mV	13.76 ft	175.00 ml/min
2/22/2023 9:02 AM	30:00	4.27 pH	19.78 °C	586.93 µS/cm	1.47 mg/L	0.30 NTU	273.8 mV	13.60 ft	175.00 ml/min
2/22/2023 9:07 AM	35:00	4.27 pH	19.86 °C	581.92 µS/cm	2.44 mg/L	0.23 NTU	269.4 mV	13.49 ft	175.00 ml/min
2/22/2023 9:12 AM	40:00	4.28 pH	19.90 °C	578.39 µS/cm	1.77 mg/L	0.29 NTU	272.8 mV	13.51 ft	175.00 ml/min
2/22/2023 9:17 AM	45:00	4.28 pH	19.85 °C	576.50 µS/cm	2.23 mg/L	0.20 NTU	274.5 mV	13.43 ft	175.00 ml/min
2/22/2023 9:22 AM	50:00	4.30 pH	19.86 °C	569.76 µS/cm	2.30 mg/L	0.27 NTU	270.4 mV	13.42 ft	175.00 ml/min
2/22/2023 9:27 AM	55:00	4.31 pH	19.89 °C	564.30 µS/cm	4.06 mg/L	0.26 NTU	270.6 mV	13.40 ft	200.00 ml/min
2/22/2023 9:32 AM	01:00:00	4.32 pH	20.09 °C	565.33 µS/cm	0.99 mg/L	0.41 NTU	283.9 mV	13.65 ft	200.00 ml/min

2/22/2023 9:37 AM	01:05:00	4.33 pH	20.09 °C	559.63 µS/cm	1.04 mg/L	0.23 NTU	300.0 mV	13.79 ft	200.00 ml/min
2/22/2023 9:42 AM	01:10:00	4.33 pH	20.10 °C	564.87 µS/cm	3.14 mg/L	0.21 NTU	311.4 mV	13.78 ft	200.00 ml/min
2/22/2023 9:47 AM	01:15:00	4.35 pH	20.08 °C	558.00 µS/cm	0.94 mg/L	0.24 NTU	316.8 mV	13.81 ft	200.00 ml/min
2/22/2023 9:52 AM	01:20:00	4.36 pH	20.11 °C	559.78 µS/cm	1.67 mg/L	0.31 NTU	318.4 mV	13.82 ft	200.00 ml/min
2/22/2023 9:57 AM	01:25:00	4.37 pH	20.13 °C	557.08 µS/cm	0.70 mg/L	0.32 NTU	322.5 mV	13.80 ft	200.00 ml/min
2/22/2023 10:02 AM	01:30:00	4.36 pH	20.17 °C	555.08 µS/cm	1.78 mg/L	0.25 NTU	327.4 mV	13.78 ft	200.00 ml/min
2/22/2023 10:07 AM	01:35:00	4.37 pH	20.20 °C	549.90 µS/cm	1.71 mg/L	0.19 NTU	333.4 mV	13.82 ft	200.00 ml/min
2/22/2023 10:12 AM	01:40:00	4.38 pH	20.18 °C	550.64 µS/cm	1.64 mg/L	0.23 NTU	336.7 mV	13.82 ft	200.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWC-20	

Low-Flow Test Report:

Test Date / Time: 2/23/2023 8:34:41 AM
Project: SCS Plant Scherer SAGW S12023 (2)
Operator Name: Mark Mann

Location Name: SCH-SGWC-21 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.79 ft** **Total Depth: 27.79 ft** **Initial Depth to Water: 0.5 ft**	**Pump Type: Dedicated Bladded** **Tubing Type: LDPE** **Pump Intake From TOC: 19.39 ft** **Estimated Total Volume Pumped: 9600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 320 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 8:34 AM	00:00	6.49 pH	20.26 °C	485.98 µS/cm	4.79 mg/L	5.51 NTU	60.0 mV	0.50 ft	400.00 ml/min
2/23/2023 8:39 AM	05:00	6.19 pH	18.92 °C	506.42 µS/cm	0.47 mg/L	8.60 NTU	68.9 mV	0.61 ft	400.00 ml/min
2/23/2023 8:44 AM	10:00	6.19 pH	18.99 °C	508.91 µS/cm	0.64 mg/L	8.50 NTU	79.5 mV	0.63 ft	400.00 ml/min
2/23/2023 8:49 AM	15:00	6.19 pH	19.11 °C	509.77 µS/cm	0.56 mg/L	6.46 NTU	78.4 mV	0.60 ft	400.00 ml/min
2/23/2023 8:54 AM	20:00	6.19 pH	19.15 °C	507.06 µS/cm	0.49 mg/L	4.86 NTU	77.7 mV	0.64 ft	320.00 ml/min
2/23/2023 8:59 AM	25:00	6.19 pH	19.20 °C	506.46 µS/cm	0.45 mg/L	3.97 NTU	76.9 mV	0.62 ft	320.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWC-21	

Low-Flow Test Report:

Test Date / Time: 2/23/2023 11:57:14 AM
Project: SCS Plant Scherer SAGW S12023 (4)
Operator Name: Mark Mann

Location Name: SCH-SGWC-22 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.6 ft** **Total Depth: 52.6 ft** **Initial Depth to Water: 25.3 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 44.2 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 11:57 AM	00:00	6.42 pH	27.42 °C	348.92 µS/cm	6.88 mg/L	1.14 NTU	107.2 mV	25.30 ft	260.00 ml/min
2/23/2023 12:02 PM	05:00	5.70 pH	20.67 °C	356.01 µS/cm	1.69 mg/L	6.00 NTU	74.3 mV	26.55 ft	180.00 ml/min
2/23/2023 12:07 PM	10:00	5.67 pH	21.23 °C	350.85 µS/cm	0.92 mg/L	2.89 NTU	80.3 mV	26.49 ft	180.00 ml/min
2/23/2023 12:12 PM	15:00	5.66 pH	21.56 °C	364.14 µS/cm	0.84 mg/L	3.04 NTU	94.2 mV	26.14 ft	180.00 ml/min
2/23/2023 12:17 PM	20:00	5.67 pH	22.01 °C	358.48 µS/cm	0.91 mg/L	4.95 NTU	95.5 mV	25.76 ft	200.00 ml/min
2/23/2023 12:22 PM	25:00	5.69 pH	21.83 °C	364.48 µS/cm	0.58 mg/L	3.50 NTU	96.6 mV	26.00 ft	200.00 ml/min
2/23/2023 12:27 PM	30:00	5.70 pH	21.38 °C	364.43 µS/cm	0.29 mg/L	2.91 NTU	102.4 mV	26.32 ft	200.00 ml/min
2/23/2023 12:32 PM	35:00	5.71 pH	21.38 °C	360.11 µS/cm	0.29 mg/L	2.62 NTU	105.9 mV	26.41 ft	200.00 ml/min
2/23/2023 12:37 PM	40:00	5.72 pH	22.02 °C	364.48 µS/cm	0.31 mg/L	2.26 NTU	112.8 mV	26.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWC-22	

Low-Flow Test Report:

Test Date / Time: 2/23/2023 10:17:07 AM
Project: SCS Plant Scherer SAGW S12023 (3)
Operator Name: Mark Mann

Location Name: SCH-SGWC-23 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.6 ft** **Total Depth: 52.6 ft** **Initial Depth to Water: 31.73 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 44.25 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 10:17 AM	00:00	7.31 pH	24.79 °C	278.94 µS/cm	6.92 mg/L	3.31 NTU	81.1 mV	31.73 ft	200.00 ml/min
2/23/2023 10:22 AM	05:00	6.06 pH	20.06 °C	299.12 µS/cm	2.99 mg/L	0.69 NTU	100.5 mV	31.89 ft	200.00 ml/min
2/23/2023 10:27 AM	10:00	6.03 pH	19.89 °C	301.72 µS/cm	2.71 mg/L	0.87 NTU	99.2 mV	31.86 ft	200.00 ml/min
2/23/2023 10:32 AM	15:00	6.01 pH	20.13 °C	301.48 µS/cm	2.40 mg/L	1.17 NTU	98.2 mV	31.85 ft	200.00 ml/min
2/23/2023 10:37 AM	20:00	6.01 pH	19.91 °C	301.47 µS/cm	2.13 mg/L	0.98 NTU	98.2 mV	31.88 ft	200.00 ml/min
2/23/2023 10:42 AM	25:00	6.00 pH	19.96 °C	298.29 µS/cm	2.16 mg/L	0.57 NTU	98.9 mV	31.86 ft	200.00 ml/min
2/23/2023 10:47 AM	30:00	6.00 pH	20.24 °C	294.09 µS/cm	2.15 mg/L	0.58 NTU	99.8 mV	31.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
SCH-SGWC-23	

Low-Flow Test Report:

Test Date / Time: 2/23/2023 10:55:58 AM
Project: SCS Plant Scherer
Operator Name: Dana Bloomfield

Location Name: SCH-PZ-13S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.1 ft** **Total Depth: 48.1 ft** **Initial Depth to Water: 31.58 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 48.1 ft** **Estimated Total Volume Pumped: 12150 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 10:55 AM	00:00	5.24 pH	23.10 °C	64.75 µS/cm	2.68 mg/L	188.00 NTU	185.0 mV	31.58 ft	160.00 ml/min
2/23/2023 11:00 AM	05:00	5.12 pH	20.19 °C	63.45 µS/cm	0.65 mg/L	120.00 NTU	152.2 mV	31.75 ft	160.00 ml/min
2/23/2023 11:05 AM	10:00	5.13 pH	20.55 °C	65.11 µS/cm	0.45 mg/L	83.30 NTU	138.3 mV	31.79 ft	160.00 ml/min
2/23/2023 11:10 AM	15:00	5.12 pH	20.68 °C	64.48 µS/cm	0.43 mg/L	63.40 NTU	130.9 mV	31.72 ft	150.00 ml/min
2/23/2023 11:15 AM	20:00	5.13 pH	20.60 °C	64.64 µS/cm	0.39 mg/L	49.40 NTU	126.0 mV	31.74 ft	150.00 ml/min
2/23/2023 11:20 AM	25:00	5.13 pH	20.54 °C	64.77 µS/cm	0.36 mg/L	42.20 NTU	123.2 mV	31.74 ft	150.00 ml/min
2/23/2023 11:25 AM	30:00	5.14 pH	20.64 °C	64.97 µS/cm	0.34 mg/L	34.40 NTU	121.3 mV	31.74 ft	150.00 ml/min
2/23/2023 11:30 AM	35:00	5.14 pH	20.74 °C	65.09 µS/cm	0.32 mg/L	21.00 NTU	119.8 mV	31.74 ft	150.00 ml/min
2/23/2023 11:35 AM	40:00	5.14 pH	20.73 °C	65.13 µS/cm	0.30 mg/L	15.70 NTU	118.0 mV	31.74 ft	150.00 ml/min
2/23/2023 11:40 AM	45:00	5.15 pH	20.82 °C	65.25 µS/cm	0.28 mg/L	12.10 NTU	116.2 mV	31.75 ft	150.00 ml/min
2/23/2023 11:45 AM	50:00	5.15 pH	20.73 °C	65.74 µS/cm	0.27 mg/L	8.79 NTU	114.5 mV	31.75 ft	150.00 ml/min
2/23/2023 11:50 AM	55:00	5.13 pH	20.64 °C	65.59 µS/cm	0.26 mg/L	7.15 NTU	113.2 mV	31.72 ft	150.00 ml/min
2/23/2023 11:55 AM	01:00:00	5.13 pH	20.50 °C	65.83 µS/cm	0.25 mg/L	5.10 NTU	112.2 mV	31.72 ft	150.00 ml/min
2/23/2023 12:00 PM	01:05:00	5.13 pH	20.81 °C	66.08 µS/cm	0.23 mg/L	5.29 NTU	109.6 mV	31.72 ft	150.00 ml/min
2/23/2023 12:05 PM	01:10:00	5.13 pH	20.95 °C	65.89 µS/cm	0.22 mg/L	3.59 NTU	108.2 mV	31.72 ft	150.00 ml/min

2/23/2023 12:10 PM	01:15:00	5.14 pH	21.00 °C	66.13 µS/cm	0.21 mg/L	2.90 NTU	106.7 mV	31.72 ft	150.00 ml/min
2/23/2023 12:15 PM	01:20:00	5.14 pH	21.17 °C	66.05 µS/cm	0.21 mg/L	2.97 NTU	105.6 mV	31.72 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 8:46:40 AM
Project: SCS Plant Scherer
Operator Name: Dana Bloomfield

Location Name: SCH-PZ-14S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.25 ft** **Total Depth: 48.25 ft** **Initial Depth to Water: 25.74 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 48.25 ft** **Estimated Total Volume Pumped: 10600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 8:46 AM	00:00	5.86 pH	19.93 °C	67.73 µS/cm	1.20 mg/L	8.97 NTU	187.1 mV	25.74 ft	220.00 ml/min
2/23/2023 8:51 AM	05:00	5.61 pH	19.26 °C	68.12 µS/cm	0.36 mg/L	25.80 NTU	155.9 mV	25.76 ft	220.00 ml/min
2/23/2023 8:56 AM	10:00	5.59 pH	19.33 °C	67.52 µS/cm	0.27 mg/L	17.00 NTU	135.5 mV	25.77 ft	200.00 ml/min
2/23/2023 9:01 AM	15:00	5.57 pH	19.34 °C	64.73 µS/cm	0.28 mg/L	12.20 NTU	122.4 mV	25.77 ft	200.00 ml/min
2/23/2023 9:06 AM	20:00	5.51 pH	19.26 °C	61.00 µS/cm	0.28 mg/L	9.51 NTU	114.8 mV	25.77 ft	160.00 ml/min
2/23/2023 9:11 AM	25:00	5.47 pH	19.25 °C	58.75 µS/cm	0.25 mg/L	7.14 NTU	108.9 mV	25.77 ft	160.00 ml/min
2/23/2023 9:16 AM	30:00	5.43 pH	19.27 °C	57.80 µS/cm	0.26 mg/L	5.62 NTU	106.0 mV	25.77 ft	160.00 ml/min
2/23/2023 9:21 AM	35:00	5.44 pH	19.30 °C	58.24 µS/cm	0.26 mg/L	4.64 NTU	100.1 mV	25.77 ft	160.00 ml/min
2/23/2023 9:26 AM	40:00	5.43 pH	19.32 °C	57.09 µS/cm	0.25 mg/L	3.61 NTU	96.9 mV	25.77 ft	160.00 ml/min
2/23/2023 9:31 AM	45:00	5.43 pH	19.30 °C	57.00 µS/cm	0.24 mg/L	2.84 NTU	94.5 mV	25.77 ft	160.00 ml/min
2/23/2023 9:36 AM	50:00	5.41 pH	19.39 °C	56.26 µS/cm	0.23 mg/L	1.55 NTU	92.2 mV	25.77 ft	160.00 ml/min
2/23/2023 9:41 AM	55:00	5.42 pH	19.48 °C	56.31 µS/cm	0.22 mg/L	1.52 NTU	90.9 mV	25.77 ft	160.00 ml/min
2/23/2023 9:46 AM	01:00:00	5.40 pH	19.46 °C	56.22 µS/cm	0.21 mg/L	1.51 NTU	90.4 mV	25.77 ft	160.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 2:13:56 PM
Project: SCS Plant Scherer
Operator Name: Dana Bloomfield

Location Name: SCH-PZ-17I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 90.35 ft** **Total Depth: 100.35 ft** **Initial Depth to Water: 27.78 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 100.35 ft** **Estimated Total Volume Pumped: 5400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 120 ml/min** **Final Draw Down: 0.69 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/23/2023 2:13 PM	00:00	6.53 pH	28.33 °C	337.19 µS/cm	3.56 mg/L	5.26 NTU	155.0 mV	27.78 ft	120.00 ml/min
2/23/2023 2:18 PM	05:00	6.68 pH	21.87 °C	359.74 µS/cm	1.29 mg/L	14.00 NTU	119.2 mV	28.38 ft	120.00 ml/min
2/23/2023 2:23 PM	10:00	6.71 pH	21.53 °C	360.44 µS/cm	0.83 mg/L	7.35 NTU	115.5 mV	28.58 ft	120.00 ml/min
2/23/2023 2:28 PM	15:00	6.71 pH	22.05 °C	363.11 µS/cm	0.72 mg/L	6.77 NTU	92.4 mV	28.53 ft	120.00 ml/min
2/23/2023 2:33 PM	20:00	6.72 pH	22.38 °C	362.74 µS/cm	0.68 mg/L	3.07 NTU	96.1 mV	28.48 ft	120.00 ml/min
2/23/2023 2:38 PM	25:00	6.72 pH	22.41 °C	362.94 µS/cm	0.63 mg/L	3.88 NTU	80.5 mV	28.48 ft	120.00 ml/min
2/23/2023 2:43 PM	30:00	6.73 pH	22.26 °C	363.12 µS/cm	0.58 mg/L	2.91 NTU	74.7 mV	28.48 ft	120.00 ml/min
2/23/2023 2:48 PM	35:00	6.73 pH	22.15 °C	361.82 µS/cm	0.52 mg/L	2.75 NTU	80.9 mV	28.47 ft	120.00 ml/min
2/23/2023 2:53 PM	40:00	6.73 pH	21.77 °C	362.43 µS/cm	0.48 mg/L	3.47 NTU	69.6 mV	28.47 ft	120.00 ml/min
2/23/2023 2:58 PM	45:00	6.73 pH	21.80 °C	361.57 µS/cm	0.44 mg/L	3.06 NTU	75.1 mV	28.47 ft	120.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/27/2023 11:11:02 AM
Project: Plant Scherer
Operator Name: Ever Guillen

Location Name: SCH-PZ-25i **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 120.9 ft** **Total Depth: 130.9 ft** **Initial Depth to Water: 40.15 ft**	**Pump Type: bladder pump** **Tubing Type: Bonded PE** **Pump Intake From TOC: 125.9 ft** **Estimated Total Volume Pumped: 18540 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sample time =1420

Weather Conditions:
Cool, cloudy, humid,some rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/27/2023 11:11 AM	00:00	8.98 pH	17.53 °C	208.18 µS/cm	3.87 mg/L	26.10 NTU	58.2 mV	40.15 ft	100.00 ml/min
2/27/2023 11:16 AM	05:00	8.12 pH	17.24 °C	219.04 µS/cm	1.26 mg/L	34.40 NTU	49.2 mV	40.24 ft	100.00 ml/min
2/27/2023 11:21 AM	10:00	7.83 pH	16.86 °C	220.28 µS/cm	0.84 mg/L	33.80 NTU	52.9 mV	40.45 ft	100.00 ml/min
2/27/2023 11:26 AM	15:00	7.73 pH	16.91 °C	219.36 µS/cm	0.70 mg/L	31.90 NTU	55.3 mV	40.45 ft	100.00 ml/min
2/27/2023 11:31 AM	20:00	7.71 pH	17.09 °C	218.66 µS/cm	0.61 mg/L	25.80 NTU	53.0 mV	40.45 ft	100.00 ml/min
2/27/2023 11:36 AM	25:00	7.63 pH	17.50 °C	218.83 µS/cm	0.52 mg/L	22.50 NTU	53.7 mV	40.45 ft	100.00 ml/min
2/27/2023 11:41 AM	30:00	7.55 pH	17.59 °C	218.27 µS/cm	0.46 mg/L	22.30 NTU	53.3 mV	40.45 ft	100.00 ml/min
2/27/2023 11:46 AM	35:00	7.44 pH	17.31 °C	218.33 µS/cm	0.45 mg/L	21.90 NTU	57.6 mV	40.45 ft	100.00 ml/min
2/27/2023 11:51 AM	40:00	7.36 pH	17.28 °C	218.04 µS/cm	0.44 mg/L	21.20 NTU	62.2 mV	40.45 ft	100.00 ml/min
2/27/2023 11:56 AM	45:00	7.26 pH	17.39 °C	217.21 µS/cm	0.53 mg/L	16.30 NTU	69.2 mV	40.45 ft	100.00 ml/min
2/27/2023 12:01 PM	50:00	7.17 pH	17.49 °C	216.38 µS/cm	0.37 mg/L	14.20 NTU	73.8 mV	40.45 ft	100.00 ml/min
2/27/2023 12:06 PM	55:00	7.10 pH	17.57 °C	214.72 µS/cm	0.30 mg/L	12.70 NTU	73.6 mV	40.45 ft	100.00 ml/min
2/27/2023 12:11 PM	01:00:00	7.05 pH	17.63 °C	213.49 µS/cm	0.29 mg/L	11.60 NTU	75.7 mV	40.45 ft	100.00 ml/min

2/27/2023 12:16 PM	01:05:00	6.98 pH	17.87 °C	211.20 µS/cm	0.35 mg/L	12.20 NTU	75.5 mV	40.45 ft	100.00 ml/min
2/27/2023 12:21 PM	01:10:00	6.93 pH	17.75 °C	210.43 µS/cm	0.28 mg/L	10.20 NTU	84.9 mV	40.45 ft	100.00 ml/min
2/27/2023 12:26 PM	01:15:00	6.89 pH	18.12 °C	208.65 µS/cm	0.34 mg/L	9.09 NTU	83.3 mV	40.45 ft	100.00 ml/min
2/27/2023 12:31 PM	01:20:00	6.85 pH	18.02 °C	207.98 µS/cm	0.31 mg/L	7.80 NTU	91.0 mV	40.45 ft	100.00 ml/min
2/27/2023 12:36 PM	01:25:00	6.83 pH	18.32 °C	205.73 µS/cm	0.26 mg/L	6.79 NTU	85.7 mV	40.45 ft	100.00 ml/min
2/27/2023 12:41 PM	01:30:00	6.81 pH	18.14 °C	205.25 µS/cm	0.29 mg/L	7.36 NTU	93.5 mV	40.45 ft	100.00 ml/min
2/27/2023 12:46 PM	01:35:00	6.78 pH	18.48 °C	202.57 µS/cm	0.24 mg/L	6.68 NTU	87.1 mV	40.45 ft	100.00 ml/min
2/27/2023 12:51 PM	01:40:00	6.75 pH	18.24 °C	203.71 µS/cm	0.21 mg/L	6.11 NTU	95.2 mV	40.45 ft	100.00 ml/min
2/27/2023 12:56 PM	01:45:00	6.76 pH	18.46 °C	202.75 µS/cm	0.22 mg/L	6.25 NTU	89.8 mV	40.45 ft	100.00 ml/min
2/27/2023 1:01 PM	01:50:00	6.76 pH	18.51 °C	202.55 µS/cm	0.21 mg/L	6.58 NTU	90.6 mV	40.45 ft	100.00 ml/min
2/27/2023 1:04 PM	01:53:11	6.75 pH	19.10 °C	201.25 µS/cm	0.25 mg/L	6.71 NTU	92.5 mV	40.45 ft	100.00 ml/min
2/27/2023 1:09 PM	01:58:11	6.74 pH	18.61 °C	201.15 µS/cm	0.21 mg/L	6.43 NTU	92.1 mV	40.45 ft	100.00 ml/min
2/27/2023 1:14 PM	02:03:11	6.73 pH	18.68 °C	201.29 µS/cm	0.22 mg/L	6.23 NTU	92.6 mV	40.45 ft	100.00 ml/min
2/27/2023 1:19 PM	02:08:11	6.72 pH	18.58 °C	200.88 µS/cm	0.24 mg/L	6.15 NTU	101.5 mV	40.45 ft	100.00 ml/min
2/27/2023 1:24 PM	02:13:11	6.70 pH	18.92 °C	199.48 µS/cm	0.22 mg/L	5.62 NTU	94.6 mV	40.45 ft	100.00 ml/min
2/27/2023 1:29 PM	02:18:11	6.70 pH	18.87 °C	200.27 µS/cm	0.22 mg/L	5.48 NTU	94.8 mV	40.45 ft	100.00 ml/min
2/27/2023 1:34 PM	02:23:11	6.70 pH	18.79 °C	200.36 µS/cm	0.25 mg/L	5.15 NTU	103.9 mV	40.45 ft	100.00 ml/min
2/27/2023 1:39 PM	02:28:11	6.70 pH	18.91 °C	199.81 µS/cm	0.23 mg/L	5.16 NTU	96.2 mV	40.45 ft	100.00 ml/min
2/27/2023 1:44 PM	02:33:11	6.69 pH	18.84 °C	199.71 µS/cm	0.23 mg/L	5.08 NTU	96.1 mV	40.45 ft	100.00 ml/min
2/27/2023 1:49 PM	02:38:11	6.69 pH	18.81 °C	199.71 µS/cm	0.27 mg/L	5.83 NTU	104.4 mV	40.45 ft	100.00 ml/min
2/27/2023 1:54 PM	02:43:11	6.67 pH	19.00 °C	198.02 µS/cm	0.61 mg/L	5.85 NTU	107.1 mV	40.45 ft	100.00 ml/min
2/27/2023 1:59 PM	02:48:11	6.66 pH	18.87 °C	199.22 µS/cm	0.59 mg/L	5.73 NTU	107.6 mV	40.45 ft	100.00 ml/min
2/27/2023 2:04 PM	02:53:11	6.66 pH	18.96 °C	200.62 µS/cm	0.32 mg/L	4.67 NTU	108.3 mV	40.45 ft	100.00 ml/min
2/27/2023 2:09 PM	02:58:11	6.66 pH	19.38 °C	200.18 µS/cm	0.36 mg/L	4.29 NTU	99.2 mV	40.45 ft	100.00 ml/min
2/27/2023 2:14 PM	03:03:11	6.65 pH	19.54 °C	200.99 µS/cm	0.27 mg/L	4.02 NTU	98.8 mV	40.45 ft	100.00 ml/min
2/27/2023 2:16 PM	03:05:24	6.65 pH	20.29 °C	199.41 µS/cm	0.23 mg/L	4.02 NTU	100.6 mV	40.45 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/27/2023 3:26:11 PM
Project: Plant Scherer
Operator Name: Ever Guillen

Location Name: SCH-PZ-25s **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 48.05 ft** **Total Depth: 58.05 ft** **Initial Depth to Water: 39.94 ft**	**Pump Type: bladder pump** **Tubing Type: Bonded PE** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.83 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sample time =1555

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/27/2023 3:26 PM	00:00	4.76 pH	19.45 °C	29.46 µS/cm	1.90 mg/L	12.80 NTU	113.5 mV	39.94 ft	200.00 ml/min
2/27/2023 3:31 PM	05:00	4.76 pH	18.91 °C	29.88 µS/cm	1.96 mg/L	8.20 NTU	124.5 mV	41.77 ft	200.00 ml/min
2/27/2023 3:36 PM	10:00	4.78 pH	19.22 °C	29.79 µS/cm	1.98 mg/L	3.78 NTU	114.1 mV	41.77 ft	200.00 ml/min
2/27/2023 3:41 PM	15:00	4.76 pH	19.24 °C	29.88 µS/cm	2.07 mg/L	3.90 NTU	117.3 mV	41.77 ft	200.00 ml/min
2/27/2023 3:46 PM	20:00	4.79 pH	19.12 °C	30.08 µS/cm	2.10 mg/L	1.61 NTU	120.2 mV	41.77 ft	200.00 ml/min
2/27/2023 3:51 PM	25:00	4.84 pH	19.15 °C	30.59 µS/cm	2.15 mg/L	1.71 NTU	120.8 mV	41.77 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/24/2023 8:19:41 AM
Project: SCS Plant Scherer SAGW S12023 (6)
Operator Name: Mark Mann

Location Name: SCH-PZ-39S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.38 ft** **Total Depth: 80.38 ft** **Initial Depth to Water: 35.12 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 75 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/24/2023 8:19 AM	00:00	6.68 pH	21.47 °C	220.54 µS/cm	7.49 mg/L	3.65 NTU	89.4 mV	35.12 ft	200.00 ml/min
2/24/2023 8:24 AM	05:00	6.60 pH	18.55 °C	228.80 µS/cm	5.06 mg/L	9.63 NTU	65.0 mV	35.57 ft	200.00 ml/min
2/24/2023 8:29 AM	10:00	6.63 pH	18.47 °C	226.65 µS/cm	7.11 mg/L	6.28 NTU	78.3 mV	35.70 ft	200.00 ml/min
2/24/2023 8:34 AM	15:00	6.65 pH	18.48 °C	225.11 µS/cm	7.28 mg/L	4.01 NTU	64.0 mV	35.78 ft	200.00 ml/min
2/24/2023 8:39 AM	20:00	6.67 pH	18.45 °C	223.10 µS/cm	7.26 mg/L	2.44 NTU	80.0 mV	35.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
SCH-PZ-39S	
SCH-AP1-FD-3	

Low-Flow Test Report:

Test Date / Time: 2/24/2023 8:03:42 AM
Project: SCS Plant Scherer
Operator Name: Dana Bloomfield

Location Name: SCH-PZ-40I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 75.93 ft** **Total Depth: 85.93 ft** **Initial Depth to Water: 40.74 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 85.93 ft** **Estimated Total Volume Pumped: 8525 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 1.85 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/24/2023 8:03 AM	00:00	6.77 pH	20.62 °C	597.20 µS/cm	3.09 mg/L	6.51 NTU	-1.8 mV	40.74 ft	175.00 ml/min
2/24/2023 8:08 AM	05:00	6.27 pH	20.13 °C	1,295.3 µS/cm	2.03 mg/L	4.01 NTU	14.7 mV	41.81 ft	175.00 ml/min
2/24/2023 8:13 AM	10:00	6.23 pH	20.24 °C	1,303.4 µS/cm	1.59 mg/L	5.47 NTU	15.4 mV	41.81 ft	175.00 ml/min
2/24/2023 8:18 AM	15:00	6.23 pH	20.37 °C	1,304.2 µS/cm	1.48 mg/L	5.23 NTU	21.8 mV	41.81 ft	175.00 ml/min
2/24/2023 8:23 AM	20:00	6.23 pH	20.46 °C	1,304.7 µS/cm	1.54 mg/L	4.79 NTU	25.5 mV	41.81 ft	175.00 ml/min
2/24/2023 8:28 AM	25:00	6.23 pH	20.11 °C	1,314.2 µS/cm	1.08 mg/L	5.63 NTU	12.5 mV	42.04 ft	175.00 ml/min
2/24/2023 8:33 AM	30:00	6.17 pH	20.10 °C	1,343.6 µS/cm	0.39 mg/L	2.01 NTU	-30.4 mV	42.04 ft	175.00 ml/min
2/24/2023 8:38 AM	35:00	6.18 pH	20.18 °C	1,351.4 µS/cm	0.28 mg/L	1.33 NTU	-27.0 mV	42.71 ft	160.00 ml/min
2/24/2023 8:43 AM	40:00	6.18 pH	20.37 °C	1,354.9 µS/cm	0.25 mg/L	1.41 NTU	-32.4 mV	42.59 ft	160.00 ml/min
2/24/2023 8:48 AM	45:00	6.18 pH	20.48 °C	1,377.1 µS/cm	0.26 mg/L	0.79 NTU	-49.4 mV	42.59 ft	160.00 ml/min
2/24/2023 8:53 AM	50:00	6.16 pH	20.64 °C	1,387.1 µS/cm	0.26 mg/L	0.61 NTU	-42.2 mV	42.59 ft	160.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/23/2023 12:35:12 PM
Project: Plant Scherer
Operator Name: Tiffany Messier

Location Name: SCH-PZ-41S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.42 ft** **Total Depth: 47.42 ft** **Initial Depth to Water: 31.95 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.76 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Weather Conditions:
Partly cloudy windy 79

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/23/2023 12:35 PM	00:00	6.01 pH	19.82 °C	1,023.7 µS/cm	1.87 mg/L	4.18 NTU	102.1 mV	33.20 ft	250.00 ml/min
2/23/2023 12:40 PM	05:00	5.97 pH	19.68 °C	1,117.6 µS/cm	1.78 mg/L	2.45 NTU	110.1 mV	33.45 ft	250.00 ml/min
2/23/2023 12:45 PM	10:00	5.95 pH	19.73 °C	1,118.8 µS/cm	1.70 mg/L	1.76 NTU	109.3 mV	33.62 ft	250.00 ml/min
2/23/2023 12:50 PM	15:00	5.93 pH	19.73 °C	1,113.3 µS/cm	1.59 mg/L	2.22 NTU	85.6 mV	33.64 ft	250.00 ml/min
2/23/2023 12:55 PM	20:00	5.92 pH	19.68 °C	1,125.7 µS/cm	1.53 mg/L	1.78 NTU	104.5 mV	33.70 ft	250.00 ml/min
2/23/2023 1:00 PM	25:00	5.92 pH	19.59 °C	1,121.2 µS/cm	1.49 mg/L	4.64 NTU	83.9 mV	33.70 ft	250.00 ml/min
2/23/2023 1:05 PM	30:00	5.91 pH	19.52 °C	1,128.1 µS/cm	1.47 mg/L	4.82 NTU	102.9 mV	33.71 ft	250.00 ml/min

Samples

Sample ID:	Description:
SCH-PZ-41S	SCH-AP1-FB-3

Low-Flow Test Report:

Test Date / Time: 2/23/2023 2:50:48 PM
Project: Plant Scherer
Operator Name: Tiffany Messier

Location Name: SCH-PZ-42I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 87.46 ft** **Total Depth: 97.46 ft** **Initial Depth to Water: 9.73 ft**	**Pump Type: MP 50 Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 93 ft** **Estimated Total Volume Pumped: 11500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.97 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:

Weather Conditions:
Cloudy 80

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 1	
2/23/2023 2:50 PM	00:00	7.83 pH	21.91 °C	582.67 µS/cm	5.99 mg/L	3.75 NTU	86.6 mV	11.99 ft	250.00 ml/min
2/23/2023 2:55 PM	05:00	7.84 pH	21.82 °C	583.93 µS/cm	5.87 mg/L	1.38 NTU	67.0 mV	12.20 ft	250.00 ml/min
2/23/2023 3:00 PM	10:00	7.60 pH	22.26 °C	591.04 µS/cm	2.33 mg/L	2.32 NTU	-112.6 mV	12.10 ft	200.00 ml/min
2/23/2023 3:05 PM	15:00	7.52 pH	22.09 °C	599.58 µS/cm	1.43 mg/L	2.43 NTU	-186.1 mV	12.13 ft	200.00 ml/min
2/23/2023 3:10 PM	20:00	7.49 pH	22.09 °C	598.90 µS/cm	1.22 mg/L	1.60 NTU	-197.7 mV	12.24 ft	200.00 ml/min
2/23/2023 3:15 PM	25:00	6.71 pH	22.30 °C	648.01 µS/cm	0.98 mg/L	1.29 NTU	-108.5 mV	12.44 ft	200.00 ml/min
2/23/2023 3:20 PM	30:00	6.47 pH	22.34 °C	644.29 µS/cm	0.88 mg/L	1.33 NTU	-117.6 mV	12.31 ft	200.00 ml/min
2/23/2023 3:25 PM	35:00	6.43 pH	21.82 °C	647.15 µS/cm	0.88 mg/L	1.28 NTU	-112.0 mV	12.59 ft	200.00 ml/min
2/23/2023 3:30 PM	40:00	6.41 pH	22.07 °C	648.98 µS/cm	0.65 mg/L	3.05 NTU	-111.4 mV	12.70 ft	200.00 ml/min
2/23/2023 3:35 PM	45:00	6.39 pH	22.09 °C	646.03 µS/cm	0.60 mg/L	3.65 NTU	-109.5 mV	12.70 ft	200.00 ml/min
2/23/2023 3:40 PM	50:00	6.38 pH	21.98 °C	650.38 µS/cm	0.73 mg/L	3.77 NTU	-107.3 mV	12.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
SCH-PZ-42I	

Low-Flow Test Report:

Test Date / Time: 2/24/2023 10:40:52 AM
Project: Plant Scherer
Operator Name: Ever Guillen

Location Name: SCH-PZ-43s **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.9 ft** **Total Depth: 53.9 ft** **Initial Depth to Water: 22.06 ft**	**Pump Type: bladder pump** **Tubing Type: Bonded PE** **Pump Intake From TOC: 48.9 ft** **Estimated Total Volume Pumped: 13000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.27 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sample time = 1150

Weather Conditions:
Cool,cloudy,humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/24/2023 10:40 AM	00:00	10.16 pH	22.70 °C	541.39 µS/cm	7.25 mg/L	2.50 NTU	76.7 mV	22.06 ft	200.00 ml/min
2/24/2023 10:45 AM	05:00	8.93 pH	20.34 °C	467.37 µS/cm	1.92 mg/L	2.04 NTU	99.2 mV	22.92 ft	200.00 ml/min
2/24/2023 10:50 AM	10:00	8.64 pH	19.82 °C	475.52 µS/cm	1.67 mg/L	1.93 NTU	99.4 mV	23.17 ft	200.00 ml/min
2/24/2023 10:55 AM	15:00	8.38 pH	20.05 °C	476.34 µS/cm	1.54 mg/L	0.81 NTU	100.5 mV	23.33 ft	200.00 ml/min
2/24/2023 11:00 AM	20:00	8.05 pH	20.24 °C	475.82 µS/cm	1.43 mg/L	0.80 NTU	101.6 mV	23.33 ft	200.00 ml/min
2/24/2023 11:05 AM	25:00	7.76 pH	19.76 °C	472.97 µS/cm	1.33 mg/L	0.67 NTU	111.5 mV	23.33 ft	200.00 ml/min
2/24/2023 11:10 AM	30:00	7.55 pH	19.59 °C	470.91 µS/cm	1.26 mg/L	0.78 NTU	102.8 mV	23.33 ft	200.00 ml/min
2/24/2023 11:15 AM	35:00	7.40 pH	19.27 °C	470.56 µS/cm	1.22 mg/L	0.63 NTU	111.6 mV	23.33 ft	200.00 ml/min
2/24/2023 11:20 AM	40:00	7.29 pH	19.51 °C	467.97 µS/cm	1.16 mg/L	0.65 NTU	103.3 mV	23.33 ft	200.00 ml/min
2/24/2023 11:25 AM	45:00	7.20 pH	19.64 °C	467.67 µS/cm	1.15 mg/L	0.60 NTU	103.4 mV	23.33 ft	200.00 ml/min
2/24/2023 11:30 AM	50:00	7.12 pH	19.71 °C	464.04 µS/cm	1.09 mg/L	1.10 NTU	104.0 mV	23.33 ft	200.00 ml/min
2/24/2023 11:35 AM	55:00	7.07 pH	19.61 °C	462.41 µS/cm	1.04 mg/L	0.79 NTU	104.0 mV	23.33 ft	200.00 ml/min
2/24/2023 11:40 AM	01:00:00	7.00 pH	19.77 °C	461.14 µS/cm	1.02 mg/L	0.72 NTU	104.6 mV	23.33 ft	200.00 ml/min

2/24/2023 11:45 AM	01:05:00	6.97 pH	19.84 °C	459.51 µS/cm	1.01 mg/L	0.68 NTU	104.5 mV	23.33 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/28/2023 9:38:52 AM
Project: Plant Scherer
Operator Name: Ever Guillen

Location Name: SCH-PZ-44i **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 107.2 ft** **Total Depth: 117.2 ft** **Initial Depth to Water: 19.68 ft**	**Pump Type: bladder pump** **Tubing Type: Bonded PE** **Pump Intake From TOC: 112 ft** **Estimated Total Volume Pumped: 7100 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.92 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sample time = 1030

Weather Conditions:
Cool,clear, humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/28/2023 9:38 AM	00:00	8.10 pH	22.10 °C	14.94 µS/cm	8.44 mg/L	4.94 NTU	173.1 mV	19.68 ft	200.00 ml/min
2/28/2023 9:43 AM	05:00	6.76 pH	21.67 °C	225.02 µS/cm	2.93 mg/L	6.43 NTU	67.0 mV	20.09 ft	150.00 ml/min
2/28/2023 9:48 AM	10:00	6.61 pH	21.76 °C	221.84 µS/cm	1.62 mg/L	6.08 NTU	62.4 mV	20.44 ft	150.00 ml/min
2/28/2023 9:58 AM	19:14	6.57 pH	20.58 °C	219.03 µS/cm	0.92 mg/L	5.79 NTU	50.3 mV	20.52 ft	150.00 ml/min
2/28/2023 10:03 AM	24:14	6.56 pH	20.42 °C	219.66 µS/cm	0.48 mg/L	5.25 NTU	41.1 mV	20.60 ft	150.00 ml/min
2/28/2023 10:04 AM	25:40	6.54 pH	20.02 °C	221.84 µS/cm	0.45 mg/L	4.93 NTU	36.8 mV	20.60 ft	150.00 ml/min
2/28/2023 10:09 AM	30:40	6.56 pH	20.42 °C	218.81 µS/cm	0.44 mg/L	4.12 NTU	39.8 mV	20.60 ft	150.00 ml/min
2/28/2023 10:14 AM	35:40	6.55 pH	20.20 °C	218.43 µS/cm	0.37 mg/L	3.34 NTU	37.6 mV	20.60 ft	150.00 ml/min
2/28/2023 10:19 AM	40:40	6.55 pH	20.11 °C	216.58 µS/cm	0.33 mg/L	2.76 NTU	36.3 mV	20.60 ft	150.00 ml/min
2/28/2023 10:24 AM	45:40	6.54 pH	20.07 °C	215.46 µS/cm	0.32 mg/L	2.63 NTU	33.7 mV	20.60 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/24/2023 10:00:53 AM
Project: SCS Plant Scherer (8)
Operator Name: Daniel Howard

Location Name: SCH-PZ-69I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98.16 ft** **Total Depth: 108.16 ft** **Initial Depth to Water: 18.23 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 103 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883536**

Test Notes:
Low Flow. Sample time 1027.

Weather Conditions:
Overcast 70F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/24/2023 10:00 AM	00:00	6.50 pH	19.69 °C	422.98 µS/cm	0.34 mg/L	0.33 NTU	-88.5 mV	18.23 ft	200.00 ml/min
2/24/2023 10:05 AM	05:00	6.51 pH	19.47 °C	424.09 µS/cm	0.22 mg/L	0.19 NTU	-96.2 mV	18.33 ft	200.00 ml/min
2/24/2023 10:10 AM	10:00	6.53 pH	19.46 °C	426.56 µS/cm	0.18 mg/L	0.21 NTU	-92.0 mV	18.33 ft	200.00 ml/min
2/24/2023 10:15 AM	15:00	6.53 pH	19.76 °C	426.25 µS/cm	0.15 mg/L	0.44 NTU	-90.1 mV	18.32 ft	200.00 ml/min
2/24/2023 10:20 AM	20:00	6.54 pH	20.39 °C	424.94 µS/cm	0.13 mg/L	0.20 NTU	-89.6 mV	18.32 ft	200.00 ml/min
2/24/2023 10:25 AM	25:00	6.54 pH	20.30 °C	423.86 µS/cm	0.12 mg/L	0.18 NTU	-89.1 mV	18.32 ft	200.00 ml/min

Samples

Sample ID:	Description:

APPENDIX A

Instrument Calibration Records

March-April 2021 **Daily Calibration Log** 166235021

Project Plant Scherer **Incude daily mid-day pH check**
Field Staff ~~D. Thomas / J.Waguespack~~ M. MANN

Instrument Calibration

Date: 02/22/23 02/23/23 02/24/23 02/27/23
Time: 0800 0800 0735 0835/1500

Parameter	Units	Standard	SmarTROLL SN 884189 iPad # 91	SmarTROLL SN 884187 iPad # 122	SmarTROLL SN 884187 iPad # 122	SmarTROLL SN ~~884187~~ 850762 iPad # 122
DO	% saturation	100	99.95	109.41	101.97	99.99
Conductivity	us/cm	4490	4041.0	~~2.5138.2~~ 4490.2)	4459.2	4793.1
pH	S.U.	4.00	4.00	4.04	4.01	4.00/4.13
pH	S.U.	7.00	7.05	7.06	7.01	7.03/7.19
pH	S.U.	10.00	10.02	10.09	10.09	10.01/10.17
ORP	mV	228.00	223.9	222.0	219.9	238.0
			HACH	HACH	HACH	HACH

	Units	Standard	~~LaMotte~~ SN 21030D000600	~~LaMotte~~ SN 21030D000600	~~LaMotte~~ SN 21030D000600	~~LaMotte~~ SN 21030D000600
Turbidity	NTU	20 ~~0.0~~	21.7	20.2	19.3	21.8
	NTU	100 ~~1.0~~	107	102	94.8	104
	NTU	800 10.0	801	803	752	848
		10	9.83	10.4	10.8	9.82

Date: 02/28/2023 03/01/2023
Time: 0815/1200 0745/

Parameter	Units	Standard	SmarTROLL SN 850762 iPad # 91	SmarTROLL SN 850762 iPad # 91	SmarTROLL SN _____ iPad # ____	SmarTROLL SN _____ iPad # ____
DO	% saturation	100	106.11	94.73		
Conductivity	us/cm	4490	4491.1	4412.4		
pH	S.U.	4.00	4.08/4.04	4.00		
pH	S.U.	7.00	7.02/7.04	6.99		
pH	S.U.	10.00	10.01/10.01	10.00		
ORP	mV	228.00	226.00	234.00		
			HACH			

	Units	Standard	~~LaMotte~~ SN 21030D000600	LaMotte SN 21030D000600	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	20 ~~0.0~~	18.8	20.8		
	NTU	100 ~~1.0~~	95.4	99.4		
	NTU	800 ~~10.0~~	792	808		
		10	10.2	9.51		

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

~~May 2020~~ February 2023 **Daily Calibration Log** 20139484

Project: Plant Scherer
Field Staff: Tiffany Meissner

Instrument Calibration

Date: 2/21/23 **Time:** 12:08 2/22/23 6:59 2/23/23 06:00 2/24/23 06:17

Parameter	Units	Standard	AquaTROLL SN 983853	AquaTROLL SN 983553	AquaTROLL SN 843593	AquaTROLL SN
DO	% saturation	100	103.15	96.34	106.5	99.08
Conductivity	us/cm	4490	4440	3930.4	4355.5	4234.5
pH	S.U.	4.00	4.04	3.98	3.99	4.01
pH	S.U.	7.00	7.12	7.03	7.00	7.04
pH	S.U.	10.00	10.15	109.0	10.02	10.1
ORP	mV	228.00	226.1	233.0	230.1	221.28

	Units	Standard	Hach SN 22090D000239	Hach SN 22090D000239	Hach SN 22090D000239	Hach SN 22090D000239
Turbidity	NTU	~~0.0~~ 20	19.6	20.1	19.8	19.5
	NTU	~~100~~ 100	110	100	100	99.6
	NTU	~~8000~~ 800	801	852	800	799

Date: ~~2~~/27/23 **Time:** 08:00 13:02 07:19 2/28/23 12:~~44~~

Parameter	Units	Standard	AquaTROLL SN 843593	AquaTROLL SN 984189	AquaTROLL SN 984149	AquaTROLL SN 984189
DO	% saturation	100	100.95		91.92	
Conductivity	us/cm	4490	4490	~~4.13~~	4023.4	
pH	S.U.	4.00	4.03	4.13	4.09	4.03
pH	S.U.	7.00	7.06	7.07	7.06	6.97
pH	S.U.	10.00	10.10	10.06	10.11	9.88
ORP	mV	228.00	242.6		219.2	

	Units	Standard	Hach SN 22090D000239	Hach SN 22090D000239	Hach SN	Hach SN
Turbidity	NTU	20.0	20.7	21.4		
	NTU	1.00	101	104		
	NTU	800	804	814		

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff: Daniel Howard

Instrument Calibration

Date: 2/21/23 **Time:**

Parameter	Units	Standard	AquaTROLL SN 883536	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	103.46			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	10.05			
ORP	mV	228.00	234.1			

	Units	Standard	Hach SN _____	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Date: **Time:**

Parameter	Units	Standard	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

	Units	Standard	Hach SN _____	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff: Daniel Howard

Instrument Calibration

Date: 2/21/23 **Time:** 1332

Parameter	Units	Standard	AquaTROLL SN 883536	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	103.46			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	10.05			
ORP	mV	228.00	234.1			

	Units	Standard	Hach SN 22090D000 345	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	20	19.9			
	NTU	100	99.4			
	NTU	800	790			
Ck STD NTU		10	9.98			

Date: 2/22/23 **Time:** 0707

Parameter	Units	Standard	AquaTROLL SN 883536	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	96.12			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	10.05			
ORP	mV	228.00	235.7			

	Units	Standard	Hach SN 22090D000 345	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	20	19.9			
	NTU	100	100			
	NTU	800	800			
Ck STD NTU		10	9.97			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff: Daniel Howard

Instrument Calibration

Date: 2/23/23 **Time:** 0525

Parameter	Units	Standard	AquaTROLL SN 883536	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.75			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00			
pH	S.U.	7.00	7.00			
pH	S.U.	10.00	10.00			
ORP	mV	228.00	231.4			

Turbidity	Units	Standard	Hach SN 22090D000 345	Hach SN _____	Hach SN _____	Hach SN _____
	NTU	20	19.9			
	NTU	100	100			
	NTU	800	808			
ck	NTU	10	10.1			

Date: 2/24/23 **Time:** 0515

Parameter	Units	Standard	AquaTROLL SN 883536	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.35			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00			
pH	S.U.	7.00	7.00			
pH	S.U.	10.00	10.05			
ORP	mV	228.00	232.8			

Turbidity	Units	Standard	Hach SN 22090D000 345	Hach SN _____	Hach SN _____	Hach SN _____
	NTU	20	20.0			
	NTU	100	99.6			
	NTU	800	794			
CK	NTU	10	10.0			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff: Daniel Howard

Instrument Calibration

Date: 2/27/23 **Time:** 0815 midday check pH

Parameter	Units	Standard	AquaTROLL SN 883635	AquaTROLL SN 883635	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	102.15			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00	4.04		
pH	S.U.	7.00	7.04	7.04		
pH	S.U.	10.00	10.11	10.06		
ORP	mV	228.00	239.5			

	Units	Standard	Hach SN 22090D000 345	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	20	20.1			
	NTU	100	100			
	NTU	800	799			
CK	NTU	10	10.0			

Date: 2/28/23 **Time:** 0515 midday check pH

Parameter	Units	Standard	AquaTROLL SN 883635	AquaTROLL SN 883635	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.37			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00	3.98		
pH	S.U.	7.00	7.00	6.97		
pH	S.U.	10.00	10.00	9.99		
ORP	mV	228.00	230.5			

	Units	Standard	Hach SN 22090D000 345	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	20	19.7			
	NTU	100	100			
	NTU	800	802			
CK	NTU	10	10.2			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff: Daniel Howard

Instrument Calibration

Date: 3/1/23 **Time:** 0525 1315 mid ck

Parameter	Units	Standard	AquaTROLL SN 883536	AquaTROLL SN 883536	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.54			
Conductivity	us/cm	4490	4490			
pH	S.U.	4.00	4.00	4.06		
pH	S.U.	7.00	7.00	7.05		
pH	S.U.	10.00	10.00	9.98		
ORP	mV	228.00	232.5			

Turbidity	Units	Standard	Hach SN 22090D000345	Hach SN _____	Hach SN _____	Hach SN _____
	NTU	20	20.0			
	NTU	100	95.5			
	NTU	800	800			
ck	NTU	10	10.1			

Date: **Time:**

Parameter	Units	Standard	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

Turbidity	Units	Standard	Hach SN _____	Hach SN _____	Hach SN _____	Hach SN _____
	NTU					
	NTU					
	NTU					

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff:

Instrument Calibration

Date: 2-22-22 **Time:** 705

Parameter	Units	Standard	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.58	728634		
Conductivity	us/cm	4490	4428	↓		
pH	S.U.	4.00	4.08			
pH	S.U.	7.00	7.09			
pH	S.U.	10.00	10.38			
ORP	mV	228.00	222.7			

	Units	Standard	Hach SN _____	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	10.0	9.72	22090D0337		
	NTU	20.0	21.1	↓		
	NTU	100.0	101			

Date: 2-23-23 **Time:** 700

Parameter	Units	Standard	AquaTROLL SN 728634	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	101.61	7		
Conductivity	us/cm	4490	4554			
pH	S.U.	4.00	4.03			
pH	S.U.	7.00	7.07			
pH	S.U.	10.00	10.02			
ORP	mV	228.00	225.2			

	Units	Standard	Hach SN 22090D0337	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	~~0.0~~ 10.0	9.96			
	NTU	~~1.0~~ 20.0	19.7			
	NTU	~~10.0~~ 100	100			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Daily Calibration Log

Project: Plant Scherer
Field Staff:

Instrument Calibration

Date: 2-24-23 **Time:** 715

Parameter	Units	Standard	AquaTROLL SN 728634	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	100.48			
Conductivity	us/cm	4490	4690			
pH	S.U.	4.00	4.01			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	10.03			
ORP	mV	228.00	228.8			

	Units	Standard	Hach SN 2209D00337	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	10.0	9.98			
	NTU	20.0	18.7			
	NTU	100.0	96.7			

Date: 2-27-23 **Time:** 800

Parameter	Units	Standard	AquaTROLL SN 728634	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	97.35			
Conductivity	us/cm	4490	4004			
pH	S.U.	4.00	4.03			
pH	S.U.	7.00	7.04			
pH	S.U.	10.00	10.10			
ORP	mV	228.00	236.0			

	Units	Standard	Hach SN 22090300337	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	10	9.93			
	NTU	20	20.10			
	NTU	100	102			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff:

Instrument Calibration

Date: 2-28-23 **Time:** 715

Parameter	Units	Standard	AquaTROLL SN 728634	AquaTROLL SN	AquaTROLL SN	AquaTROLL SN
DO	% saturation	100	102.55			
Conductivity	us/cm	4490	4532			
pH	S.U.	4.00	4.04			
pH	S.U.	7.00	7.05			
pH	S.U.	10.00	10.09			
ORP	mV	228.00	228.6			

	Units	Standard	Hach SN 220900300337	Hach SN	Hach SN	Hach SN
Turbidity	NTU	~~0.0~~ 10.0	10.1			
	NTU	~~1.0~~ 20.0	20.5			
	NTU	~~10.0~~ 100.0	101			

Date: 3-1-23 **Time:** 800

Parameter	Units	Standard	AquaTROLL SN 728634	AquaTROLL SN	AquaTROLL SN	AquaTROLL SN
DO	% saturation	100	100.04			
Conductivity	us/cm	4490	4966			
pH	S.U.	4.00	4.01			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	10.04			
ORP	mV	228.00	233.3			

	Units	Standard	Hach SN 220900300337	Hach SN	Hach SN	Hach SN
Turbidity	NTU	~~0.0~~ 10.0	10.0			
	NTU	~~1.0~~ 20.0	20.2			
	NTU	~~10.0~~ 100.0	100			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

APPENDIX B

Analytical Results, Data Validation Summary and Laboratory Accreditation

APPENDIX B

Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 3/29/2023 2:59:32 PM Revision 1

JOB DESCRIPTION

GPC Plant Scherer - Ash Pond

JOB NUMBER

680-230928-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
3/29/2023 2:59:32 PM
Revision 1

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230928-1	SCH-SGWA-1	Water	02/21/23 13:20	02/23/23 14:49
680-230928-2	SCH-AP1-FB-1	Water	02/21/23 16:20	02/23/23 14:49
680-230928-3	SCH-SGWA-5	Water	02/21/23 15:18	02/23/23 14:49
680-230928-4	SCH-AP1-EB-1	Water	02/21/23 16:08	02/23/23 14:49
680-230928-5	SCH-SGWA-3	Water	02/21/23 16:02	02/23/23 14:49

Case Narrative

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Job ID: 680-230928-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-230928-1

Revision 1
The report being provided is a revision of the original report sent on 3/22/2023. The report (revision 1) is being revised in order to add the missing sample receipt checklist to the end of report.

Receipt
The samples were received on 2/23/2023 2:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

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

Metals
Method 6020B: The continuing calibration verification (CCV) associated with batch 180-427388 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SCH-SGWA-1 (680-230928-1), SCH-AP1-FB-1 (680-230928-2), SCH-SGWA-5 (680-230928-3), SCH-AP1-EB-1 (680-230928-4), SCH-SGWA-3 (680-230928-5), (CCV 180-427388/57), (LCS 180-427312/2-A), (680-230928-E-1-B MS), (680-230928-E-1-C MSD), (680-230928-E-1-A PDS) and (680-230928-E-1-A SD ^5).

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

General Chemistry
Method 2320B: pH is below 4.5 so ND are expected.SCH-AP1-FB-1 (680-230928-2) and SCH-AP1-EB-1 (680-230928-4)

Method 2540C_Calcd: The sample duplicate precision for the following sample associated with analytical batch 180-427325 was outside control limits: SCH-SGWA-1 (680-230928-1). The associated Laboratory Control Sample (LCS) precision met acceptance criteria.

Method 9034_Calc: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: samples received with headspace

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

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Client Sample ID: SCH-SGWA-1

Date Collected: 02/21/23 13:20
Date Received: 02/23/23 14:49

Lab Sample ID: 680-230928-1

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.0**		1.0	0.71	mg/L			02/23/23 19:05	1
Fluoride	**0.048**	**J**	0.10	0.026	mg/L			02/23/23 19:05	1
Sulfate	**1.3**		1.0	0.76	mg/L			02/23/23 19:05	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		02/23/23 14:20	02/24/23 10:45	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/23/23 14:20	02/24/23 10:45	1
Barium	**0.049**		0.010	0.0031	mg/L		02/23/23 14:20	02/24/23 10:45	1
Beryllium	**0.00036**	**J ^+**	0.0025	0.00027	mg/L		02/23/23 14:20	02/24/23 10:45	1
Boron	<0.060		0.080	0.060	mg/L		02/23/23 14:20	02/24/23 10:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/23/23 14:20	02/24/23 10:45	1
Calcium	**2.2**		0.50	0.13	mg/L		02/23/23 14:20	02/24/23 10:45	1
Chromium	**0.0025**		0.0020	0.0015	mg/L		02/23/23 14:20	02/24/23 10:45	1
Cobalt	**0.00071**	**J**	0.0025	0.00026	mg/L		02/23/23 14:20	02/24/23 10:45	1
Iron	<0.028		0.050	0.028	mg/L		02/23/23 14:20	02/24/23 10:45	1
Lead	<0.00038		0.0010	0.00038	mg/L		02/23/23 14:20	02/24/23 10:45	1
Lithium	**0.0022**	**J**	0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 10:45	1
Magnesium	**0.95**		0.50	0.050	mg/L		02/23/23 14:20	02/24/23 10:45	1
Manganese	**0.099**		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 10:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/23/23 14:20	02/24/23 10:45	1
Potassium	**0.71**		0.50	0.16	mg/L		02/23/23 14:20	02/24/23 10:45	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/23/23 14:20	02/24/23 10:45	1
Sodium	**3.1**		0.50	0.18	mg/L		02/23/23 14:20	02/24/23 10:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/23/23 14:20	02/24/23 10:45	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/24/23 09:01	02/24/23 15:16	1
Total Dissolved Solids (SM 2540C)	**41**		10	10	mg/L			02/23/23 17:25	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**14**		5.0	5.0	mg/L			02/27/23 13:57	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**14**		5.0	5.0	mg/L			02/27/23 13:57	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 13:57	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.28**				SU			02/21/23 13:20	1
Ferrous Iron	**0.5**				mg/L			02/21/23 13:20	1

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Client Sample ID: SCH-AP1-FB-1

Lab Sample ID: 680-230928-2

Date Collected: 02/21/23 16:20

Matrix: Water

Date Received: 02/23/23 14:49

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/23/23 19:23	1
Fluoride	**0.037**	**J**	0.10	0.026	mg/L			02/23/23 19:23	1
Sulfate	<0.76		1.0	0.76	mg/L			02/23/23 19:23	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		02/23/23 14:20	02/24/23 11:03	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/23/23 14:20	02/24/23 11:03	1
Barium	<0.0031		0.010	0.0031	mg/L		02/23/23 14:20	02/24/23 11:03	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		02/23/23 14:20	02/24/23 11:03	1
Boron	<0.060		0.080	0.060	mg/L		02/23/23 14:20	02/24/23 11:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/23/23 14:20	02/24/23 11:03	1
Calcium	<0.13		0.50	0.13	mg/L		02/23/23 14:20	02/24/23 11:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/23/23 14:20	02/24/23 11:03	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/23/23 14:20	02/24/23 11:03	1
Iron	<0.028		0.050	0.028	mg/L		02/23/23 14:20	02/24/23 11:03	1
Lead	<0.00038		0.0010	0.00038	mg/L		02/23/23 14:20	02/24/23 11:03	1
Lithium	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:03	1
Magnesium	<0.050		0.50	0.050	mg/L		02/23/23 14:20	02/24/23 11:03	1
Manganese	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/23/23 14:20	02/24/23 11:03	1
Potassium	<0.16		0.50	0.16	mg/L		02/23/23 14:20	02/24/23 11:03	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/23/23 14:20	02/24/23 11:03	1
Sodium	<0.18		0.50	0.18	mg/L		02/23/23 14:20	02/24/23 11:03	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/23/23 14:20	02/24/23 11:03	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/24/23 09:01	02/24/23 15:19	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			02/23/23 17:25	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:40	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:40	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:40	1

Client Sample ID: SCH-SGWA-5

Lab Sample ID: 680-230928-3

Date Collected: 02/21/23 15:18

Matrix: Water

Date Received: 02/23/23 14:49

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.0**		1.0	0.71	mg/L			02/23/23 19:42	1
Fluoride	**0.039**	**J**	0.10	0.026	mg/L			02/23/23 19:42	1
Sulfate	**1.2**		1.0	0.76	mg/L			02/23/23 19:42	1

Client Sample ID: SCH-SGWA-5

Lab Sample ID: 680-230928-3

Date Collected: 02/21/23 15:18

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		02/23/23 14:20	02/24/23 11:07	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/23/23 14:20	02/24/23 11:07	1
Barium	**0.012**		0.010	0.0031	mg/L		02/23/23 14:20	02/24/23 11:07	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		02/23/23 14:20	02/24/23 11:07	1
Boron	<0.060		0.080	0.060	mg/L		02/23/23 14:20	02/24/23 11:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/23/23 14:20	02/24/23 11:07	1
Calcium	**1.8**		0.50	0.13	mg/L		02/23/23 14:20	02/24/23 11:07	1
Chromium	**0.0017**	**J**	0.0020	0.0015	mg/L		02/23/23 14:20	02/24/23 11:07	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/23/23 14:20	02/24/23 11:07	1
Iron	<0.028		0.050	0.028	mg/L		02/23/23 14:20	02/24/23 11:07	1
Lead	<0.00038		0.0010	0.00038	mg/L		02/23/23 14:20	02/24/23 11:07	1
Lithium	**0.0020**	**J**	0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:07	1
Magnesium	**0.59**		0.50	0.050	mg/L		02/23/23 14:20	02/24/23 11:07	1
Manganese	**0.0036**	**J**	0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/23/23 14:20	02/24/23 11:07	1
Potassium	**0.52**		0.50	0.16	mg/L		02/23/23 14:20	02/24/23 11:07	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/23/23 14:20	02/24/23 11:07	1
Sodium	**11**		0.50	0.18	mg/L		02/23/23 14:20	02/24/23 11:07	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/23/23 14:20	02/24/23 11:07	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/24/23 09:01	02/24/23 15:21	1
Total Dissolved Solids (SM 2540C)	**65**		10	10	mg/L			02/23/23 17:25	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**31**		5.0	5.0	mg/L			02/23/23 22:43	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**31**		5.0	5.0	mg/L			02/23/23 22:43	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.60**				SU			02/21/23 15:18	1
Ferrous Iron	**0.0**				mg/L			02/21/23 15:18	1

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-230928-4

Date Collected: 02/21/23 16:08

Matrix: Water

Date Received: 02/23/23 14:49

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/23/23 20:00	1
Fluoride	**0.048**	**J**	0.10	0.026	mg/L			02/23/23 20:00	1
Sulfate	**0.89**	**J**	1.0	0.76	mg/L			02/23/23 20:00	1

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-230928-4

Date Collected: 02/21/23 16:08

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		02/23/23 14:20	02/24/23 11:21	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/23/23 14:20	02/24/23 11:21	1
Barium	<0.0031		0.010	0.0031	mg/L		02/23/23 14:20	02/24/23 11:21	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		02/23/23 14:20	02/24/23 11:21	1
Boron	<0.060		0.080	0.060	mg/L		02/23/23 14:20	02/24/23 11:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/23/23 14:20	02/24/23 11:21	1
Calcium	<0.13		0.50	0.13	mg/L		02/23/23 14:20	02/24/23 11:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/23/23 14:20	02/24/23 11:21	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/23/23 14:20	02/24/23 11:21	1
Iron	<0.028		0.050	0.028	mg/L		02/23/23 14:20	02/24/23 11:21	1
Lead	<0.00038		0.0010	0.00038	mg/L		02/23/23 14:20	02/24/23 11:21	1
Lithium	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:21	1
Magnesium	<0.050		0.50	0.050	mg/L		02/23/23 14:20	02/24/23 11:21	1
Manganese	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/23/23 14:20	02/24/23 11:21	1
Potassium	<0.16		0.50	0.16	mg/L		02/23/23 14:20	02/24/23 11:21	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/23/23 14:20	02/24/23 11:21	1
Sodium	<0.18		0.50	0.18	mg/L		02/23/23 14:20	02/24/23 11:21	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/23/23 14:20	02/24/23 11:21	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/24/23 09:01	02/24/23 15:24	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			02/23/23 17:25	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:48	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:48	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:48	1

Client Sample ID: SCH-SGWA-3

Lab Sample ID: 680-230928-5

Date Collected: 02/21/23 16:02

Matrix: Water

Date Received: 02/23/23 14:49

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.3**		1.0	0.71	mg/L			02/23/23 20:55	1
Fluoride	**0.041**	**J**	0.10	0.026	mg/L			02/23/23 20:55	1
Sulfate	**1.6**		1.0	0.76	mg/L			02/23/23 20:55	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		02/23/23 14:20	02/24/23 11:25	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/23/23 14:20	02/24/23 11:25	1
Barium	**0.045**		0.010	0.0031	mg/L		02/23/23 14:20	02/24/23 11:25	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		02/23/23 14:20	02/24/23 11:25	1

Client Sample ID: SCH-SGWA-3
Date Collected: 02/21/23 16:02
Date Received: 02/23/23 14:49

Lab Sample ID: 680-230928-5
Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		02/23/23 14:20	02/24/23 11:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/23/23 14:20	02/24/23 11:25	1
Calcium	**6.4**		0.50	0.13	mg/L		02/23/23 14:20	02/24/23 11:25	1
Chromium	**0.023**		0.0020	0.0015	mg/L		02/23/23 14:20	02/24/23 11:25	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/23/23 14:20	02/24/23 11:25	1
Iron	<0.028		0.050	0.028	mg/L		02/23/23 14:20	02/24/23 11:25	1
Lead	<0.00038		0.0010	0.00038	mg/L		02/23/23 14:20	02/24/23 11:25	1
Lithium	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:25	1
Magnesium	**5.3**		0.50	0.050	mg/L		02/23/23 14:20	02/24/23 11:25	1
Manganese	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 11:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/23/23 14:20	02/24/23 11:25	1
Potassium	**1.1**		0.50	0.16	mg/L		02/23/23 14:20	02/24/23 11:25	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/23/23 14:20	02/24/23 11:25	1
Sodium	**4.5**		0.50	0.18	mg/L		02/23/23 14:20	02/24/23 11:25	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/23/23 14:20	02/24/23 11:25	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/24/23 09:01	02/24/23 15:26	1
Total Dissolved Solids (SM 2540C)	**55**		10	10	mg/L			02/23/23 17:25	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**45**		5.0	5.0	mg/L			02/23/23 22:51	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**45**		5.0	5.0	mg/L			02/23/23 22:51	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/23/23 22:51	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.82**				SU			02/21/23 16:02	1
Ferrous Iron	**0.0**				mg/L			02/21/23 16:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-427262/6
Matrix: Water
Analysis Batch: 427262

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/23/23 13:04	1
Fluoride	<0.026		0.10	0.026	mg/L			02/23/23 13:04	1
Sulfate	<0.76		1.0	0.76	mg/L			02/23/23 13:04	1

Lab Sample ID: LCS 180-427262/7
Matrix: Water
Analysis Batch: 427262

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.5		mg/L		99	90 - 110
Fluoride	2.50	2.64		mg/L		106	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: 680-230928-4 MS
Matrix: Water
Analysis Batch: 427262

Client Sample ID: SCH-AP1-EB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<0.71		50.0	50.0		mg/L		100	90 - 110
Fluoride	0.048	J	2.50	2.73		mg/L		107	90 - 110
Sulfate	0.89	J	50.0	51.8		mg/L		102	90 - 110

Lab Sample ID: 680-230928-4 MSD
Matrix: Water
Analysis Batch: 427262

Client Sample ID: SCH-AP1-EB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<0.71		50.0	50.0		mg/L		100	90 - 110	0	20
Fluoride	0.048	J	2.50	2.73		mg/L		107	90 - 110	0	20
Sulfate	0.89	J	50.0	51.2		mg/L		101	90 - 110	1	20

Lab Sample ID: 180-152176-E-1 DU
Matrix: Water
Analysis Batch: 427262

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	5.0	F1	5.04		mg/L		0.2	20
Fluoride	0.15	F1	0.137		mg/L		10	20
Sulfate	220		223		mg/L		0.2	20

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

Lab Sample ID: MB 180-427312/1-A
Matrix: Water
Analysis Batch: 427388

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 427312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		02/23/23 14:20	02/24/23 10:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/23/23 14:20	02/24/23 10:23	1
Barium	<0.0031		0.010	0.0031	mg/L		02/23/23 14:20	02/24/23 10:23	1

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

Lab Sample ID: MB 180-427312/1-A
Matrix: Water
Analysis Batch: 427388

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 427312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/23/23 14:20	02/24/23 10:23	1
Boron	<0.060		0.080	0.060	mg/L		02/23/23 14:20	02/24/23 10:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/23/23 14:20	02/24/23 10:23	1
Calcium	<0.13		0.50	0.13	mg/L		02/23/23 14:20	02/24/23 10:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/23/23 14:20	02/24/23 10:23	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/23/23 14:20	02/24/23 10:23	1
Iron	<0.028		0.050	0.028	mg/L		02/23/23 14:20	02/24/23 10:23	1
Lead	<0.00038		0.0010	0.00038	mg/L		02/23/23 14:20	02/24/23 10:23	1
Lithium	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 10:23	1
Magnesium	<0.050		0.50	0.050	mg/L		02/23/23 14:20	02/24/23 10:23	1
Manganese	<0.0013		0.0050	0.0013	mg/L		02/23/23 14:20	02/24/23 10:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/23/23 14:20	02/24/23 10:23	1
Potassium	<0.16		0.50	0.16	mg/L		02/23/23 14:20	02/24/23 10:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/23/23 14:20	02/24/23 10:23	1
Sodium	<0.18		0.50	0.18	mg/L		02/23/23 14:20	02/24/23 10:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/23/23 14:20	02/24/23 10:23	1

Lab Sample ID: LCS 180-427312/2-A
Matrix: Water
Analysis Batch: 427388

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 427312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.283		mg/L		113	80 - 120
Arsenic	1.00	0.962		mg/L		96	80 - 120
Barium	1.00	0.943		mg/L		94	80 - 120
Beryllium	0.500	0.589	^+	mg/L		118	80 - 120
Boron	1.25	1.27		mg/L		101	80 - 120
Cadmium	0.500	0.535		mg/L		107	80 - 120
Calcium	25.0	29.0		mg/L		116	80 - 120
Chromium	0.500	0.538		mg/L		108	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Iron	5.00	5.53		mg/L		111	80 - 120
Lead	0.500	0.531		mg/L		106	80 - 120
Lithium	0.500	0.523		mg/L		105	80 - 120
Magnesium	25.0	27.1		mg/L		108	80 - 120
Manganese	0.500	0.526		mg/L		105	80 - 120
Molybdenum	0.500	0.523		mg/L		105	80 - 120
Potassium	25.0	25.9		mg/L		104	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Sodium	25.0	27.9		mg/L		112	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: 680-230928-1 MS
Matrix: Water
Analysis Batch: 427388

Client Sample ID: SCH-SGWA-1
Prep Type: Total Recoverable
Prep Batch: 427312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.274		mg/L		109	75 - 125
Arsenic	<0.00028		1.00	0.926		mg/L		93	75 - 125

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

Lab Sample ID: 680-230928-1 MS
Matrix: Water
Analysis Batch: 427388

Client Sample ID: SCH-SGWA-1
Prep Type: Total Recoverable
Prep Batch: 427312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.049		1.00	0.952		mg/L		90	75 - 125
Beryllium	0.00036	J ^+	0.500	0.568	^+	mg/L		114	75 - 125
Boron	<0.060		1.25	1.24		mg/L		99	75 - 125
Cadmium	<0.00022		0.500	0.510		mg/L		102	75 - 125
Calcium	2.2		25.0	29.5		mg/L		109	75 - 125
Chromium	0.0025		0.500	0.518		mg/L		103	75 - 125
Cobalt	0.00071	J	0.500	0.479		mg/L		96	75 - 125
Iron	<0.028		5.00	5.39		mg/L		108	75 - 125
Lead	<0.00038		0.500	0.508		mg/L		102	75 - 125
Lithium	0.0022	J	0.500	0.503		mg/L		100	75 - 125
Magnesium	0.95		25.0	26.8		mg/L		103	75 - 125
Manganese	0.099		0.500	0.602		mg/L		101	75 - 125
Molybdenum	<0.00061		0.500	0.500		mg/L		100	75 - 125
Potassium	0.71		25.0	25.5		mg/L		99	75 - 125
Selenium	<0.00074		1.00	1.02		mg/L		102	75 - 125
Sodium	3.1		25.0	29.7		mg/L		107	75 - 125
Thallium	<0.00047		1.00	1.02		mg/L		102	75 - 125

Lab Sample ID: 680-230928-1 MSD
Matrix: Water
Analysis Batch: 427388

Client Sample ID: SCH-SGWA-1
Prep Type: Total Recoverable
Prep Batch: 427312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.277		mg/L		111	75 - 125	1	20
Arsenic	<0.00028		1.00	0.945		mg/L		94	75 - 125	2	20
Barium	0.049		1.00	0.978		mg/L		93	75 - 125	3	20
Beryllium	0.00036	J ^+	0.500	0.592	^+	mg/L		118	75 - 125	4	20
Boron	<0.060		1.25	1.28		mg/L		103	75 - 125	3	20
Cadmium	<0.00022		0.500	0.524		mg/L		105	75 - 125	3	20
Calcium	2.2		25.0	30.1		mg/L		112	75 - 125	2	20
Chromium	0.0025		0.500	0.531		mg/L		106	75 - 125	3	20
Cobalt	0.00071	J	0.500	0.490		mg/L		98	75 - 125	2	20
Iron	<0.028		5.00	5.41		mg/L		108	75 - 125	0	20
Lead	<0.00038		0.500	0.522		mg/L		104	75 - 125	3	20
Lithium	0.0022	J	0.500	0.522		mg/L		104	75 - 125	4	20
Magnesium	0.95		25.0	26.9		mg/L		104	75 - 125	0	20
Manganese	0.099		0.500	0.611		mg/L		102	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.514		mg/L		103	75 - 125	3	20
Potassium	0.71		25.0	25.7		mg/L		100	75 - 125	1	20
Selenium	<0.00074		1.00	1.05		mg/L		105	75 - 125	2	20
Sodium	3.1		25.0	29.8		mg/L		107	75 - 125	0	20
Thallium	<0.00047		1.00	1.04		mg/L		104	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-428554/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 12:51	1

Lab Sample ID: LCS 180-428554/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428554

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00243		mg/L		97	80 - 120		

Lab Sample ID: 680-230924-C-1-C MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 428554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.00013		0.00100	0.000930		mg/L		93	75 - 125		

Lab Sample ID: 680-230924-C-1-D MSD
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 428554

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000918		mg/L		92	75 - 125	1	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-427368/2-A
Matrix: Water
Analysis Batch: 427414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		02/24/23 09:01	02/24/23 14:52	1

Lab Sample ID: LCS 180-427368/1-A
Matrix: Water
Analysis Batch: 427414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427368

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			18.4	16.6		mg/L		90	85 - 115		

Lab Sample ID: 180-152502-B-1-B MS
Matrix: Water
Analysis Batch: 427414

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 427368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<2.1		18.4	17.9		mg/L		97	75 - 125		

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 180-152502-B-1-C MSD
Matrix: Water
Analysis Batch: 427414

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 427368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<2.1		18.4	17.8		mg/L		97	75 - 125	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-427325/1
Matrix: Water
Analysis Batch: 427325

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/23/23 17:25	1

Lab Sample ID: LCS 180-427325/2
Matrix: Water
Analysis Batch: 427325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	650		mg/L		98	85 - 115

Lab Sample ID: 680-230928-1 DU
Matrix: Water
Analysis Batch: 427325

Client Sample ID: SCH-SGWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	41		33.0	F5	mg/L		22	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-427358/100
Matrix: Water
Analysis Batch: 427358

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/23/23 22:25	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/23 22:25	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/23 22:25	1

Lab Sample ID: MB 180-427358/77
Matrix: Water
Analysis Batch: 427358

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/23/23 20:31	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/23 20:31	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/23 20:31	1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-427358/99
Matrix: Water
Analysis Batch: 427358

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	263		mg/L		103	90 - 110

Lab Sample ID: LLCS 180-427358/98
Matrix: Water
Analysis Batch: 427358

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	16.5		mg/L		108	75 - 125

Lab Sample ID: 680-230924-B-1 DU
Matrix: Water
Analysis Batch: 427358

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	110		107		mg/L		0.5	20
Bicarbonate Alkalinity as CaCO3	110		107		mg/L		0.5	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-427598/5
Matrix: Water
Analysis Batch: 427598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/27/23 12:33	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 12:33	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 12:33	1

Lab Sample ID: LCS 180-427598/4
Matrix: Water
Analysis Batch: 427598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	253		mg/L		99	90 - 110

Lab Sample ID: LLCS 180-427598/3
Matrix: Water
Analysis Batch: 427598

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	14.9		mg/L		98	75 - 125

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-152337-D-4 DU
Matrix: Water
Analysis Batch: 427598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	840			834		mg/L				0.3	20
Bicarbonate Alkalinity as CaCO3	840			834		mg/L				0.3	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

QC Association Summary

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

HPLC/IC

Analysis Batch: 427262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	EPA 300.0 R2.1	
680-230928-3	SCH-SGWA-5	Total/NA	Water	EPA 300.0 R2.1	
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	EPA 300.0 R2.1	
680-230928-5	SCH-SGWA-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-427262/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-427262/7	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-230928-4 MS	SCH-AP1-EB-1	Total/NA	Water	EPA 300.0 R2.1	
680-230928-4 MSD	SCH-AP1-EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-152176-E-1 DU	Duplicate	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 427312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total Recoverable	Water	3005A	
680-230928-2	SCH-AP1-FB-1	Total Recoverable	Water	3005A	
680-230928-3	SCH-SGWA-5	Total Recoverable	Water	3005A	
680-230928-4	SCH-AP1-EB-1	Total Recoverable	Water	3005A	
680-230928-5	SCH-SGWA-3	Total Recoverable	Water	3005A	
MB 180-427312/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-427312/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-230928-1 MS	SCH-SGWA-1	Total Recoverable	Water	3005A	
680-230928-1 MSD	SCH-SGWA-1	Total Recoverable	Water	3005A	

Analysis Batch: 427388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total Recoverable	Water	EPA 6020B	427312
680-230928-2	SCH-AP1-FB-1	Total Recoverable	Water	EPA 6020B	427312
680-230928-3	SCH-SGWA-5	Total Recoverable	Water	EPA 6020B	427312
680-230928-4	SCH-AP1-EB-1	Total Recoverable	Water	EPA 6020B	427312
680-230928-5	SCH-SGWA-3	Total Recoverable	Water	EPA 6020B	427312
MB 180-427312/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	427312
LCS 180-427312/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	427312
680-230928-1 MS	SCH-SGWA-1	Total Recoverable	Water	EPA 6020B	427312
680-230928-1 MSD	SCH-SGWA-1	Total Recoverable	Water	EPA 6020B	427312

Prep Batch: 428554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	7470A	
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	7470A	
680-230928-3	SCH-SGWA-5	Total/NA	Water	7470A	
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	7470A	
680-230928-5	SCH-SGWA-3	Total/NA	Water	7470A	
MB 180-428554/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428554/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-230924-C-1-C MS	Matrix Spike	Total/NA	Water	7470A	
680-230924-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

QC Association Summary

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Metals

Analysis Batch: 428715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	EPA 7470A	428554
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	EPA 7470A	428554
680-230928-3	SCH-SGWA-5	Total/NA	Water	EPA 7470A	428554
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	EPA 7470A	428554
680-230928-5	SCH-SGWA-3	Total/NA	Water	EPA 7470A	428554
MB 180-428554/1-A	Method Blank	Total/NA	Water	EPA 7470A	428554
LCS 180-428554/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428554
680-230924-C-1-C MS	Matrix Spike	Total/NA	Water	EPA 7470A	428554
680-230924-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	428554

General Chemistry

Analysis Batch: 427325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	SM 2540C	
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	SM 2540C	
680-230928-3	SCH-SGWA-5	Total/NA	Water	SM 2540C	
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	SM 2540C	
680-230928-5	SCH-SGWA-3	Total/NA	Water	SM 2540C	
MB 180-427325/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427325/2	Lab Control Sample	Total/NA	Water	SM 2540C	
680-230928-1 DU	SCH-SGWA-1	Total/NA	Water	SM 2540C	

Analysis Batch: 427358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	SM2320 B	
680-230928-3	SCH-SGWA-5	Total/NA	Water	SM2320 B	
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	SM2320 B	
680-230928-5	SCH-SGWA-3	Total/NA	Water	SM2320 B	
MB 180-427358/100	Method Blank	Total/NA	Water	SM2320 B	
MB 180-427358/77	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427358/99	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427358/98	Lab Control Sample	Total/NA	Water	SM2320 B	
680-230924-B-1 DU	Duplicate	Total/NA	Water	SM2320 B	

Prep Batch: 427368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	9030B	
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	9030B	
680-230928-3	SCH-SGWA-5	Total/NA	Water	9030B	
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	9030B	
680-230928-5	SCH-SGWA-3	Total/NA	Water	9030B	
MB 180-427368/2-A	Method Blank	Total/NA	Water	9030B	
LCS 180-427368/1-A	Lab Control Sample	Total/NA	Water	9030B	
180-152502-B-1-B MS	Matrix Spike	Total/NA	Water	9030B	
180-152502-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 427414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	EPA 9034	427368
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	EPA 9034	427368

General Chemistry (Continued)

Analysis Batch: 427414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-3	SCH-SGWA-5	Total/NA	Water	EPA 9034	427368
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	EPA 9034	427368
680-230928-5	SCH-SGWA-3	Total/NA	Water	EPA 9034	427368
MB 180-427368/2-A	Method Blank	Total/NA	Water	EPA 9034	427368
LCS 180-427368/1-A	Lab Control Sample	Total/NA	Water	EPA 9034	427368
180-152502-B-1-B MS	Matrix Spike	Total/NA	Water	EPA 9034	427368
180-152502-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 9034	427368

Analysis Batch: 427598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	SM2320 B	
MB 180-427598/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427598/4	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427598/3	Lab Control Sample	Total/NA	Water	SM2320 B	
180-152337-D-4 DU	Duplicate	Total/NA	Water	SM2320 B	

Analysis Batch: 429994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	SM 3500	
680-230928-3	SCH-SGWA-5	Total/NA	Water	SM 3500	
680-230928-5	SCH-SGWA-3	Total/NA	Water	SM 3500	

Field Service / Mobile Lab

Analysis Batch: 428204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	Field Sampling	
680-230928-3	SCH-SGWA-5	Total/NA	Water	Field Sampling	
680-230928-5	SCH-SGWA-3	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Client Sample ID: SCH-SGWA-1

Lab Sample ID: 680-230928-1

Date Collected: 02/21/23 13:20

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427262	02/23/23 19:05	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	427312	02/23/23 14:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			427388	02/24/23 10:45	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 12:56	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427368	02/24/23 09:01	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427414	02/24/23 15:16	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427325	02/23/23 17:25	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 13:57	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/21/23 13:20	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FB-1

Lab Sample ID: 680-230928-2

Date Collected: 02/21/23 16:20

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427262	02/23/23 19:23	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	427312	02/23/23 14:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			427388	02/24/23 11:03	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 12:57	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427368	02/24/23 09:01	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427414	02/24/23 15:19	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427325	02/23/23 17:25	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427358	02/23/23 22:40	MAM	EET PIT
	Instrument ID: PCTITRATOR									

Lab Chronicle

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Client Sample ID: SCH-SGWA-5

Lab Sample ID: 680-230928-3

Date Collected: 02/21/23 15:18

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427262	02/23/23 19:42	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	427312	02/23/23 14:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			427388	02/24/23 11:07	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 12:58	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427368	02/24/23 09:01	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427414	02/24/23 15:21	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427325	02/23/23 17:25	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427358	02/23/23 22:43	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/21/23 15:18	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-230928-4

Date Collected: 02/21/23 16:08

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427262	02/23/23 20:00	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	427312	02/23/23 14:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			427388	02/24/23 11:21	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 12:59	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427368	02/24/23 09:01	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427414	02/24/23 15:24	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427325	02/23/23 17:25	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427358	02/23/23 22:48	MAM	EET PIT
	Instrument ID: PCTITRATOR									

Lab Chronicle

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Client Sample ID: SCH-SGWA-3

Date Collected: 02/21/23 16:02
Date Received: 02/23/23 14:49

Lab Sample ID: 680-230928-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427262	02/23/23 20:55	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	427312	02/23/23 14:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			427388	02/24/23 11:25	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:00	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427368	02/24/23 09:01	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427414	02/24/23 15:26	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427325	02/23/23 17:25	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427358	02/23/23 22:51	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/21/23 16:02	FDS	EET PIT
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-230928-1
Project/Site: GPC Plant Scherer - Ash Pond

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-23
US Fish & Wildlife	US Federal Programs	058448	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23
Wisconsin	State	998027800	08-31-23

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

Method Summary

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM 3500	Iron, Ferric	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

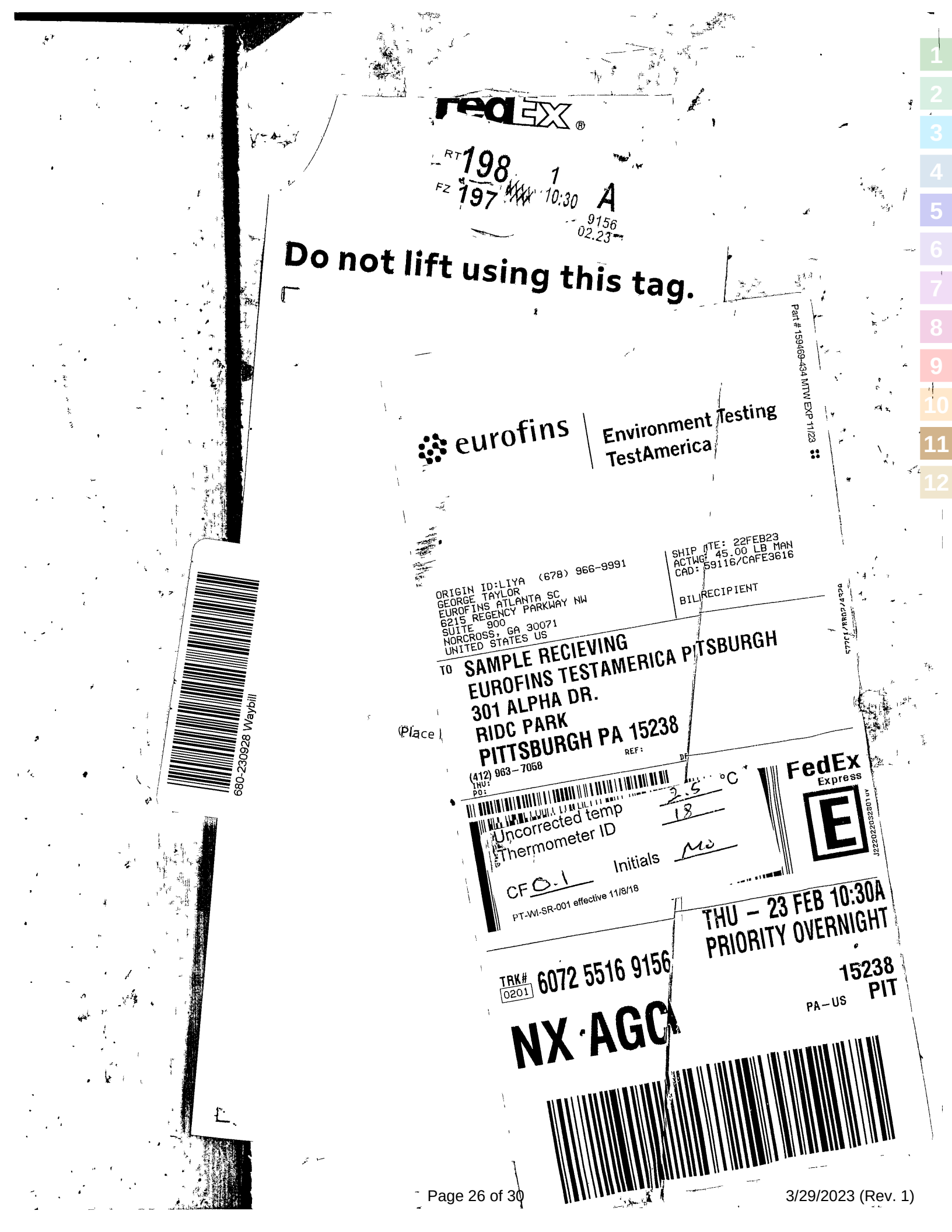
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058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Part # 159469-434 MTW EXP 11/23
eurofins
Environment Testing
TestAmerica
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 22FEB23
ACTWGT: 45.00 LB MAN
CAD: 59116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
Uncorrected temp 2.5 °C
Thermometer ID 18
Initials MD
CF 0.1
PT-WI-SR-001 effective 11/8/18
FedEx Express
THU - 23 FEB 10:30A
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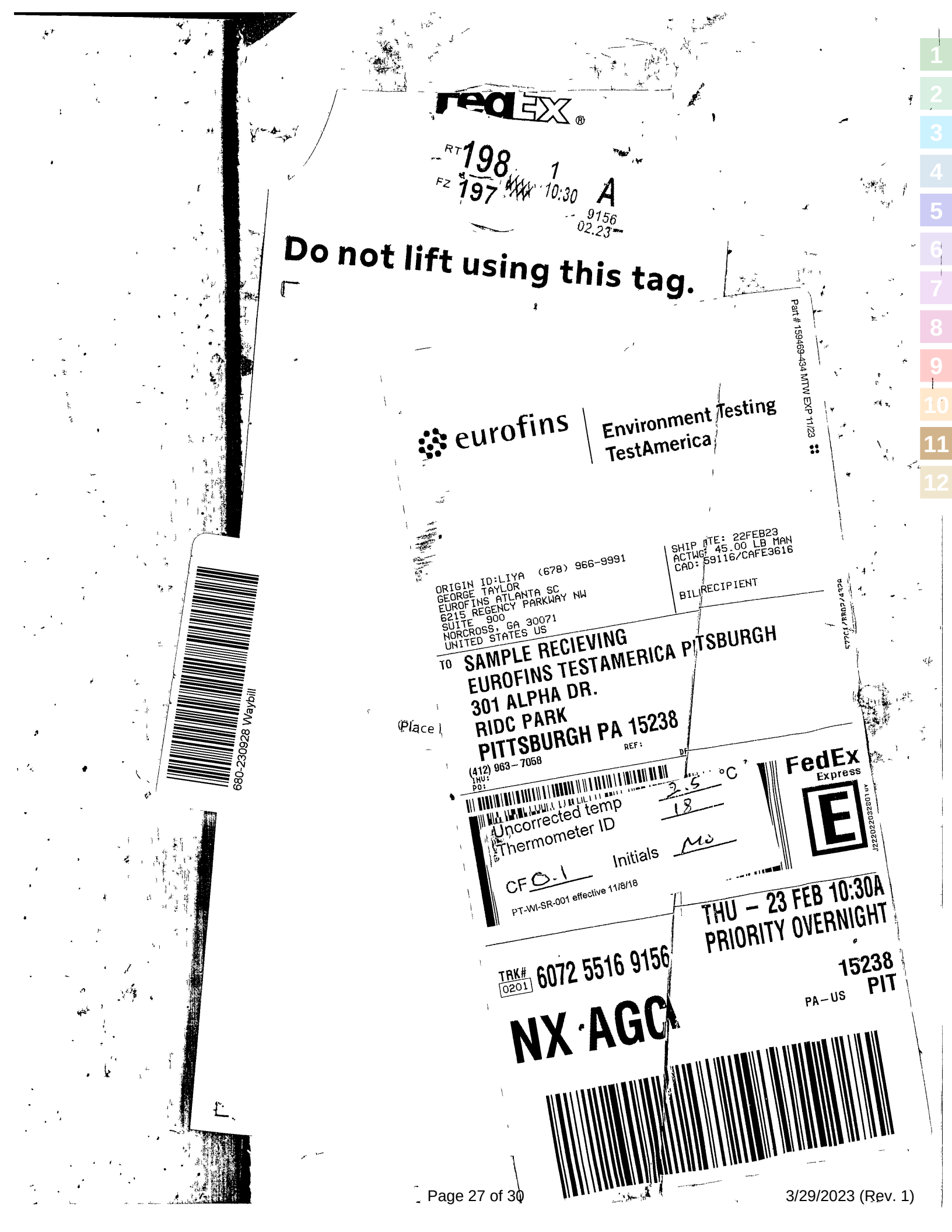
15238
PIT
PA-US
NX AGC
680-230928 Waybill
(Place)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Do not lift using this tag.
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eurofins | Environment Testing TestAmerica
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 22FEB23
ACTWGT: 45.00 LB MAN
CAD: 59116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
Uncorrected temp 2.5 °C
Thermometer ID 18
Initials MS
CF 0.1
PT-WI-SR-001 effective 11/8/18
FedEx Express
THU - 23 FEB 10:30A
PRIORITY OVERNIGHT
TRK# 0201 6072 5516 9156
15238
PIT
PA-US
NX AGC
680-230928 Waybill
Place

STLouis

TestAmerica ~~Pittsburgh~~
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: Courier Now

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/22/23	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: MIKE	__1__ of __1__ COCs
Southern Company	**Analysis Turnaround Time**			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below ___3-5 days___			Walk-in Client:
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Ash Pond	☐ 1 week			
Site: Georgia	☐ 2 days			Job / SDG No.:
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes:
SCH-SGWA-1	2/21/2023	13:20	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.28, Fe2= 0.5, Fe2 collected 2/21/2023 at 13:30
SCH-AP1-FB-1	2/21/2023	16:20	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-SGWA-5	2/21/2023	15:18	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.60, Fe2= 0.0, Fe2 collected 2/21/2023 at 15:23
SCH-AP1-EB-1	2/21/2023	16:08	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-SGWA-3	2/21/2023	16:02	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.82, Fe2= 0.0, Fe2 collected 2/21/2023 at 16:07
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4						

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 05:30		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____				
Relinquished by: Duane Fulton	Company: WSP	Date/Time: 02/22/23	Received by: Mike Gremmick	Company: Courier Now	Date/Time: 2/22 8:30 AM		
Relinquished by: Mike Gremmick	Company: Courier Now	Date/Time: 2/22/23 10:10	Received by: Michael Mosteller	Company:	Date/Time: 2-22-23 10:10		
Relinquished by: Michael Mosteller	Company:	Date/Time: 2-22-23 10:10	Received in Laboratory by: Stena Watlington	Company: TALSR	Date/Time: 2/23/23 0850		

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412 963 7058 fax 412.963 2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: COURIER NOW

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/22/23	COC No
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: MIKE	1 of 1 COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client:
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Ash Pond	☐ 1 week			
Site: Georgia	☐ 2 days			Job / SDG No
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes
SCH-SGWA-1	2/21/2023	13 20	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 28, Fe2= 0 5, Fe2 collected 2/21/2023 at 13 30
SCH-AP1-FB-1	2/21/2023	16 20	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-SGWA-5	2/21/2023	15 18	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 60, Fe2= 0 0, Fe2 collected 2/21/2023 at 15.23
SCH-AP1-EB-1	2/21/2023	16 08	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-SGWA-3	2/21/2023	16 02	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 82, Fe2= 0 0, Fe2 collected 2/21/2023 at 16.07
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4						

TO ST. LOUIS
Sample Specific Notes

680-230928 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No 05:30	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by: DUANE FULTON	Company: WSP	Date/Time: 02/22/23	Received by: MIKE GERMANICE	Company: COURIER NOW	Date/Time: 2/22 8:30 AM
Relinquished by: MIKE GERMANICE	Company: COURIER NOW	Date/Time: 2/22/23 10:10	Received by: Michael Mosley	Company	Date/Time: 2-22-23 10:10
Relinquished by: Michael Mosley	Company	Date/Time: 2-23-23 10:10	Received in Laboratory by:	Company: BRANE	Date/Time: 2-23-23 0940

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230928-1

Login Number: 230928
List Number: 5
Creator: Weimerskirk, Angie

List Source: Eurofins Pittsburgh
List Creation: 03/28/23 09:51 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/15/2023 11:28:27 AM

JOB DESCRIPTION

CCR Plant Scherer - Ash Pond

JOB NUMBER

680-231043-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
4/15/2023 11:28:27 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-231043-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

Glossary

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

Sample Summary

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

Job ID: 680-231043-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231043-1	SCH-SGWA-2	Water	02/22/23 09:45	02/24/23 09:30
680-231043-2	SCH-SGWA-4	Water	02/22/23 11:30	02/24/23 09:30
680-231043-3	SCH-SGWC-6	Water	02/22/23 13:20	02/24/23 09:30
680-231043-4	SCH-SGWC-7	Water	02/22/23 15:30	02/24/23 09:30
680-231043-5	SCH-SGWC-8	Water	02/22/23 11:33	02/24/23 09:30
680-231043-6	SCH-SGWC-9	Water	02/22/23 09:45	02/24/23 09:30
680-231043-7	SCH-SGWC-10	Water	02/22/23 15:04	02/24/23 09:30
680-231043-8	SCH-SGWC-11	Water	02/22/23 14:30	02/24/23 09:30
680-231043-9	SCH-SGWC-17	Water	02/22/23 14:21	02/24/23 09:30
680-231043-10	SCH-SGWC-18	Water	02/22/23 11:48	02/24/23 09:30
680-231043-11	SCH-SGWC-19	Water	02/22/23 12:07	02/24/23 09:30
680-231043-12	SCH-SGWC-20	Water	02/22/23 10:13	02/24/23 09:30
680-231043-13	SCH-AP1-FD-1	Water	02/22/23 00:00	02/24/23 09:30
680-231043-14	SCH-AP1-FD-2	Water	02/22/23 00:00	02/24/23 09:30

Case Narrative

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

Job ID: 680-231043-1

Job ID: 680-231043-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231043-1

Receipt
The samples were received on 2/24/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.3°C, 2.4°C and 3.8°C

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-427383 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Metals
Method 6020B: The post digestion spike % recovery for barium associated with batch 180-428454 was outside of control limits. The associated sample is: SCH-SGWC-6 (680-231043-3).

Method 6020B: More than 10 samples were injected between CCV/CCB pairs. The following samples were in this batch: SCH-SGWC-9 (680-231043-6), SCH-SGWC-19 (680-231043-11) and SCH-SGWC-20 (680-231043-12)

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: SCH-SGWC-18 (680-231043-10), (180-152511-E-1-J ^2), (180-152511-E-1-K MS ^2), (180-152511-E-1-L MSD ^2), (180-152511-E-1-J PDS ^2) and (180-152511-E-1-J SD ^10). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method 2320B: Initial pH is less than or equal to 4.5 so the following sample is all NDSCH-SGWC-20 (680-231043-12)

Method 9034_Calc: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: samples received with headspace.

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

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWA-2

Date Collected: 02/22/23 09:45
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-1

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.5**		1.0	0.71	mg/L			02/24/23 16:27	1
Fluoride	**0.070**	**J**	0.10	0.026	mg/L			02/24/23 16:27	1
Sulfate	**1.4**		1.0	0.76	mg/L			02/24/23 16:27	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 14:59	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 14:59	1
Barium	**0.038**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 14:59	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 14:59	1
Boron	<0.060		0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 14:59	1
Calcium	**11**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 14:59	1
Chromium	**0.015**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 14:59	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 14:59	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 14:59	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 14:59	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 22:39	1
Magnesium	**6.0**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 14:59	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 14:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 14:59	1
Potassium	**0.93**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 14:59	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 14:59	1
Sodium	**4.5**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 14:59	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 14:59	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:11	1
Total Dissolved Solids (SM 2540C)	**100**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**69**		5.0	5.0	mg/L			02/24/23 20:06	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**69**		5.0	5.0	mg/L			02/24/23 20:06	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 20:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.85**				SU			02/22/23 09:45	1
Ferrous Iron	**0.0**				mg/L			02/22/23 09:45	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWA-4

Date Collected: 02/22/23 11:30
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-2

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.6**		1.0	0.71	mg/L			02/24/23 16:45	1
Fluoride	**0.60**		0.10	0.026	mg/L			02/24/23 16:45	1
Sulfate	**1.4**		1.0	0.76	mg/L			02/24/23 16:45	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:03	1
Arsenic	**0.00029**	**J**	0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:03	1
Barium	**0.078**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:03	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:03	1
Boron	<0.060		0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:03	1
Calcium	**20**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:03	1
Chromium	**0.0058**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:03	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:03	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:03	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:03	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 22:42	1
Magnesium	**7.1**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:03	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:03	1
Potassium	**1.7**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:03	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:03	1
Sodium	**9.1**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:03	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:03	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:18	1
Total Dissolved Solids (SM 2540C)	**120**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**110**		5.0	5.0	mg/L			02/24/23 20:11	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**110**		5.0	5.0	mg/L			02/24/23 20:11	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 20:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.36**				SU			02/22/23 11:30	1
Ferrous Iron	**0.0**				mg/L			02/22/23 11:30	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-6

Date Collected: 02/22/23 13:20
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-3

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.3**		1.0	0.71	mg/L			02/24/23 17:40	1
Fluoride	**0.11**		0.10	0.026	mg/L			02/24/23 17:40	1
Sulfate	**1.4**		1.0	0.76	mg/L			02/24/23 17:40	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:07	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:07	1
Barium	**0.12**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:07	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:07	1
Boron	<0.060		0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:07	1
Calcium	**10**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:07	1
Cobalt	**0.00030**	**J**	0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:07	1
Iron	**0.23**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:07	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:07	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 22:46	1
Magnesium	**4.5**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:07	1
Manganese	**0.053**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:07	1
Potassium	**0.87**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:07	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:07	1
Sodium	**11**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:07	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:07	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:21	1
Total Dissolved Solids (SM 2540C)	**120**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	**0.23**		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**75**		5.0	5.0	mg/L			02/24/23 20:16	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**75**		5.0	5.0	mg/L			02/24/23 20:16	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 20:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.28**				SU			02/22/23 13:20	1
Ferrous Iron	**0.0**				mg/L			02/22/23 13:20	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-7

Date Collected: 02/22/23 15:30
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-4

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.6**		1.0	0.71	mg/L			02/24/23 17:59	1
Fluoride	**0.16**		0.10	0.026	mg/L			02/24/23 17:59	1
Sulfate	**6.7**		1.0	0.76	mg/L			02/24/23 17:59	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:25	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:25	1
Barium	**0.22**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:25	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:25	1
Boron	**0.064**	**J B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:25	1
Calcium	**15**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:25	1
Cobalt	**0.0014**	**J**	0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:25	1
Iron	**0.21**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:25	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:25	1
Lithium	**0.0056**		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:12	1
Magnesium	**9.4**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:25	1
Manganese	**0.12**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:25	1
Potassium	**3.9**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:25	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:25	1
Sodium	**16**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:25	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:25	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:23	1
Total Dissolved Solids (SM 2540C)	**170**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	**0.21**		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**130**		5.0	5.0	mg/L			02/24/23 20:21	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**130**		5.0	5.0	mg/L			02/24/23 20:21	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 20:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.51**				SU			02/22/23 15:30	1
Ferrous Iron	**0.0**				mg/L			02/22/23 15:30	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-8

Date Collected: 02/22/23 11:33
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-5

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		1.0	0.71	mg/L			02/24/23 18:54	1
Fluoride	**0.52**	**F1**	0.10	0.026	mg/L			02/24/23 18:54	1
Sulfate	**52**		1.0	0.76	mg/L			02/24/23 18:54	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:40	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:40	1
Barium	**0.13**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:40	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:40	1
Boron	**0.11**	**B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:40	1
Calcium	**41**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:40	1
Chromium	**0.0023**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:40	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:40	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:40	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:40	1
Lithium	**0.0014**	**J**	0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:15	1
Magnesium	**24**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:40	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:40	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:40	1
Potassium	**1.1**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:40	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:40	1
Sodium	**36**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:40	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:40	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:26	1
Total Dissolved Solids (SM 2540C)	**350**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**260**		5.0	5.0	mg/L			02/24/23 20:26	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**260**		5.0	5.0	mg/L			02/24/23 20:26	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 20:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.51**				SU			02/22/23 11:33	1
Ferrous Iron	**0.0**				mg/L			02/22/23 11:33	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-9

Date Collected: 02/22/23 09:45
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-6

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		1.0	0.71	mg/L			02/24/23 18:17	1
Fluoride	**0.076**	**J**	0.10	0.026	mg/L			02/24/23 18:17	1
Sulfate	**200**		1.0	0.76	mg/L			02/24/23 18:17	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:43	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:43	1
Barium	**0.044**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:43	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:43	1
Boron	**1.6**		0.080	0.060	mg/L		03/30/23 11:14	03/31/23 16:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:43	1
Calcium	**36**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:43	1
Cobalt	**0.00062**	**J**	0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:43	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:43	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:43	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:19	1
Magnesium	**22**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:43	1
Manganese	**0.091**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:43	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:43	1
Potassium	**0.51**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:43	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:43	1
Sodium	**45**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:43	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:43	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:28	1
Total Dissolved Solids (SM 2540C)	**430**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	**0.12**		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**82**		5.0	5.0	mg/L			02/24/23 20:32	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**82**		5.0	5.0	mg/L			02/24/23 20:32	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 20:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.14**				SU			02/22/23 09:45	1
Ferrous Iron	**0.0**				mg/L			02/22/23 09:45	1

Client Sample ID: SCH-SGWC-10

Lab Sample ID: 680-231043-7

Date Collected: 02/22/23 15:04

Matrix: Water

Date Received: 02/24/23 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.0**		1.0	0.71	mg/L			02/24/23 18:36	1
Fluoride	**0.045**	**J**	0.10	0.026	mg/L			02/24/23 18:36	1
Sulfate	**18**		1.0	0.76	mg/L			02/24/23 18:36	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:47	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:47	1
Barium	**0.038**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:47	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:47	1
Boron	**0.28**	**B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:47	1
Calcium	**2.2**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:47	1
Cobalt	**0.025**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:47	1
Iron	**0.12**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:47	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:47	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:23	1
Magnesium	**6.4**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:47	1
Manganese	**0.49**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:47	1
Potassium	**0.34**	**J**	0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:47	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:47	1
Sodium	**5.7**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:47	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:47	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:35	1
Total Dissolved Solids (SM 2540C)	**56**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	**0.14**		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**18**		5.0	5.0	mg/L			02/24/23 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**18**		5.0	5.0	mg/L			02/24/23 21:00	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.23**				SU			02/22/23 15:04	1
Ferrous Iron	**0.0**				mg/L			02/22/23 15:04	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-11

Date Collected: 02/22/23 14:30
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-8

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		1.0	0.71	mg/L			02/24/23 19:50	1
Fluoride	0.063	J	0.10	0.026	mg/L			02/24/23 19:50	1
Sulfate	3.1		1.0	0.76	mg/L			02/24/23 19:50	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:50	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:50	1
Barium	0.044		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:50	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:50	1
Boron	0.75	B	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 12:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:50	1
Calcium	1.7		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:50	1
Cobalt	0.023		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:50	1
Iron	0.14		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:50	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:50	1
Lithium	0.0024	J	0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:26	1
Magnesium	1.4		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:50	1
Manganese	0.58		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:50	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:50	1
Potassium	0.33	J	0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:50	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:50	1
Sodium	7.7		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:50	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:50	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:38	1
Total Dissolved Solids (SM 2540C)	41		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	12		5.0	5.0	mg/L			02/24/23 21:09	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	12		5.0	5.0	mg/L			02/24/23 21:09	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.10				SU			02/22/23 14:30	1
Ferrous Iron	0.5				mg/L			02/22/23 14:30	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-17

Date Collected: 02/22/23 14:21
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-9

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.1**		1.0	0.71	mg/L			02/24/23 20:08	1
Fluoride	**0.060**	**J**	0.10	0.026	mg/L			02/24/23 20:08	1
Sulfate	**230**		1.0	0.76	mg/L			02/24/23 20:08	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:54	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:54	1
Barium	**0.024**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:54	1
Boron	**0.34**	**B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 12:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:54	1
Calcium	**56**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:54	1
Chromium	**0.0084**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:54	1
Cobalt	**0.00043**	**J**	0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:54	1
Iron	**0.29**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:54	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:54	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:30	1
Magnesium	**28**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:54	1
Manganese	**0.028**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:54	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:54	1
Potassium	**0.44**	**J**	0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:54	1
Sodium	**23**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:54	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:40	1
Total Dissolved Solids (SM 2540C)	**470**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**80**		5.0	5.0	mg/L			02/24/23 21:13	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**80**		5.0	5.0	mg/L			02/24/23 21:13	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.23**				SU			02/22/23 14:21	1
Ferrous Iron	**0.0**				mg/L			02/22/23 14:21	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-18

Date Collected: 02/22/23 11:48
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-10

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		1.0	0.71	mg/L			02/24/23 20:27	1
Fluoride	**0.061**	**J**	0.10	0.026	mg/L			02/24/23 20:27	1
Sulfate	**790**		1.0	0.76	mg/L			02/24/23 20:27	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 15:58	1
Arsenic	**0.0015**		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 15:58	1
Barium	**0.0098**	**J**	0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 15:58	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 15:58	1
Boron	**8.1**		0.40	0.30	mg/L		03/03/23 12:40	03/28/23 14:16	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 15:58	1
Calcium	**41**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 15:58	1
Chromium	**0.0096**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 15:58	1
Cobalt	**0.072**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 15:58	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 15:58	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 15:58	1
Lithium	**0.0035**	**J**	0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:34	1
Magnesium	**18**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 15:58	1
Manganese	**0.64**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 15:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 15:58	1
Potassium	**3.0**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 15:58	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 15:58	1
Sodium	**320**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 15:58	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 15:58	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:43	1
Total Dissolved Solids (SM 2540C)	**1200**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:19	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:19	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.00**				SU			02/22/23 11:48	1
Ferrous Iron	**0.0**				mg/L			02/22/23 11:48	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-19

Date Collected: 02/22/23 12:07
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-11

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		1.0	0.71	mg/L			02/24/23 22:17	1
Fluoride	**0.046**	**J**	0.10	0.026	mg/L			02/24/23 22:17	1
Sulfate	**260**		1.0	0.76	mg/L			02/24/23 22:17	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:01	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:01	1
Barium	**0.022**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:01	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:01	1
Boron	**2.0**		0.080	0.060	mg/L		03/30/23 11:15	03/31/23 16:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:01	1
Calcium	**38**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:01	1
Chromium	**0.013**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:01	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:01	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:01	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:01	1
Lithium	**0.0015**	**J**	0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:37	1
Magnesium	**18**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:01	1
Manganese	**0.031**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:01	1
Potassium	**1.8**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:01	1
Sodium	**45**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:45	1
Total Dissolved Solids (SM 2540C)	**440**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**11**		5.0	5.0	mg/L			02/24/23 21:22	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**11**		5.0	5.0	mg/L			02/24/23 21:22	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.53**				SU			02/22/23 12:07	1
Ferrous Iron	**0.0**				mg/L			02/22/23 12:07	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-20

Date Collected: 02/22/23 10:13
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-12

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.8**		1.0	0.71	mg/L			02/24/23 21:22	1
Fluoride	**0.13**		0.10	0.026	mg/L			02/24/23 21:22	1
Sulfate	**230**		1.0	0.76	mg/L			02/24/23 21:22	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:05	1
Arsenic	**0.00046**	**J**	0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:05	1
Barium	**0.018**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:05	1
Beryllium	**0.00044**	**J**	0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:05	1
Boron	**1.7**		0.080	0.060	mg/L		03/30/23 11:15	03/31/23 16:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:05	1
Calcium	**14**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:05	1
Cobalt	**0.082**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:05	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:05	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:05	1
Lithium	**0.0025**	**J**	0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:48	1
Magnesium	**12**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:05	1
Manganese	**1.2**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:05	1
Potassium	**3.6**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:05	1
Sodium	**62**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:05	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:47	1
Total Dissolved Solids (SM 2540C)	**350**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:27	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:27	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**4.38**				SU			02/22/23 10:13	1
Ferrous Iron	**0.0**				mg/L			02/22/23 10:13	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-AP1-FD-1

Date Collected: 02/22/23 00:00
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-13

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.8**		1.0	0.71	mg/L			02/24/23 21:40	1
Fluoride	**0.049**	**J**	0.10	0.026	mg/L			02/24/23 21:40	1
Sulfate	**26**		1.0	0.76	mg/L			02/24/23 21:40	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:09	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:09	1
Barium	**0.041**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:09	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:09	1
Boron	**0.33**	**B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 12:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:09	1
Calcium	**3.0**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:09	1
Cobalt	**0.024**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:09	1
Iron	**0.11**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:09	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:09	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 23:52	1
Magnesium	**7.0**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:09	1
Manganese	**0.52**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:09	1
Potassium	**0.33**	**J**	0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:09	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:09	1
Sodium	**5.8**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:09	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:09	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:50	1
Total Dissolved Solids (SM 2540C)	**74**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**17**		5.0	5.0	mg/L			02/24/23 21:37	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**17**		5.0	5.0	mg/L			02/24/23 21:37	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.23**				SU			02/22/23 00:00	1
Ferrous Iron	**0.0**				mg/L			02/22/23 00:00	1

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

Job ID: 680-231043-1

Client Sample ID: SCH-AP1-FD-2

Date Collected: 02/22/23 00:00
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-14

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.9**		1.0	0.71	mg/L			02/24/23 21:59	1
Fluoride	**0.043**	**J**	0.10	0.026	mg/L			02/24/23 21:59	1
Sulfate	**3.3**		1.0	0.76	mg/L			02/24/23 21:59	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:23	1
Barium	**0.041**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:23	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:23	1
Boron	**0.68**	**B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 12:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:23	1
Calcium	**1.6**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:23	1
Cobalt	**0.021**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:23	1
Iron	**0.13**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:23	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:23	1
Lithium	**0.0019**	**J**	0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:23	1
Magnesium	**1.3**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:23	1
Manganese	**0.55**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:23	1
Potassium	**0.36**	**J**	0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:23	1
Sodium	**7.4**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:23	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:52	1
Total Dissolved Solids (SM 2540C)	**50**		10	10	mg/L			02/24/23 17:35	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**13**		5.0	5.0	mg/L			02/24/23 21:47	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**13**		5.0	5.0	mg/L			02/24/23 21:47	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/24/23 21:47	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.10**				SU			02/22/23 00:00	1
Ferrous Iron	**0.5**				mg/L			02/22/23 00:00	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-427383/6
Matrix: Water
Analysis Batch: 427383

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/24/23 13:27	1
Fluoride	<0.026		0.10	0.026	mg/L			02/24/23 13:27	1
Sulfate	<0.76		1.0	0.76	mg/L			02/24/23 13:27	1

Lab Sample ID: LCS 180-427383/7
Matrix: Water
Analysis Batch: 427383

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	51.4		mg/L		103	90 - 110
Fluoride	2.50	2.73		mg/L		109	90 - 110
Sulfate	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: 680-231043-5 MS
Matrix: Water
Analysis Batch: 427383

Client Sample ID: SCH-SGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	18		50.0	66.9		mg/L		97	90 - 110
Fluoride	0.52	F1	2.50	3.39	F1	mg/L		115	90 - 110
Sulfate	52		50.0	99.6		mg/L		95	90 - 110

Lab Sample ID: 680-231043-5 MSD
Matrix: Water
Analysis Batch: 427383

Client Sample ID: SCH-SGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	18		50.0	66.3		mg/L		96	90 - 110	1	20
Fluoride	0.52	F1	2.50	3.37	F1	mg/L		114	90 - 110	0	20
Sulfate	52		50.0	98.2		mg/L		93	90 - 110	1	20

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

Lab Sample ID: MB 180-428062/1-A
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 14:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 14:41	1
Barium	<0.0031		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 14:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 14:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 14:41	1
Calcium	<0.13		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 14:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 14:41	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 14:41	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 14:41	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 14:41	1
Magnesium	<0.050		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 14:41	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 14:41	1

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

Lab Sample ID: MB 180-428062/1-A
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 14:41	1
Potassium	<0.16		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 14:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 14:41	1
Sodium	<0.18		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 14:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 14:41	1

Lab Sample ID: MB 180-428062/1-A
Matrix: Water
Analysis Batch: 428748

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 22:31	1

Lab Sample ID: MB 180-428062/1-A
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0785	J	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:23	1

Lab Sample ID: LCS 180-428062/2-A
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.269		mg/L		107	80 - 120
Arsenic	1.00	0.974		mg/L		97	80 - 120
Barium	1.00	0.891		mg/L		89	80 - 120
Beryllium	0.500	0.467		mg/L		93	80 - 120
Cadmium	0.500	0.514		mg/L		103	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Chromium	0.500	0.514		mg/L		103	80 - 120
Cobalt	0.500	0.498		mg/L		100	80 - 120
Iron	5.00	5.13		mg/L		103	80 - 120
Lead	0.500	0.507		mg/L		101	80 - 120
Magnesium	25.0	24.2		mg/L		97	80 - 120
Manganese	0.500	0.492		mg/L		98	80 - 120
Molybdenum	0.500	0.504		mg/L		101	80 - 120
Potassium	25.0	24.4		mg/L		97	80 - 120
Selenium	1.00	0.945		mg/L		94	80 - 120
Sodium	25.0	25.6		mg/L		102	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCS 180-428062/2-A
Matrix: Water
Analysis Batch: 428748

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.499		mg/L		100	80 - 120

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

Lab Sample ID: LCS 180-428062/2-A
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.25	1.42		mg/L		114	80 - 120		

Lab Sample ID: 680-231043-3 MS
Matrix: Water
Analysis Batch: 428454

Client Sample ID: SCH-SGWC-6
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	<0.00097		0.250	0.251		mg/L		101	75 - 125		
Arsenic	<0.00028		1.00	0.916		mg/L		92	75 - 125		
Barium	0.12		1.00	0.970		mg/L		85	75 - 125		
Beryllium	<0.00027		0.500	0.434		mg/L		87	75 - 125		
Cadmium	<0.00022		0.500	0.481		mg/L		96	75 - 125		
Calcium	10		25.0	35.1		mg/L		99	75 - 125		
Chromium	<0.0015		0.500	0.480		mg/L		96	75 - 125		
Cobalt	0.00030	J	0.500	0.465		mg/L		93	75 - 125		
Iron	0.23		5.00	5.11		mg/L		98	75 - 125		
Lead	<0.00038		0.500	0.472		mg/L		94	75 - 125		
Magnesium	4.5		25.0	27.5		mg/L		92	75 - 125		
Manganese	0.053		0.500	0.510		mg/L		92	75 - 125		
Molybdenum	<0.00061		0.500	0.473		mg/L		95	75 - 125		
Potassium	0.87		25.0	24.0		mg/L		92	75 - 125		
Selenium	<0.00074		1.00	0.879		mg/L		88	75 - 125		
Sodium	11		25.0	35.3		mg/L		96	75 - 125		
Thallium	<0.00047		1.00	0.952		mg/L		95	75 - 125		

Lab Sample ID: 680-231043-3 MS
Matrix: Water
Analysis Batch: 428748

Client Sample ID: SCH-SGWC-6
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Lithium	<0.0013		0.500	0.484		mg/L		97	75 - 125		

Lab Sample ID: 680-231043-3 MS
Matrix: Water
Analysis Batch: 430527

Client Sample ID: SCH-SGWC-6
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	<0.060		1.25	1.39		mg/L		111	75 - 125		

Lab Sample ID: 680-231043-3 MSD
Matrix: Water
Analysis Batch: 428454

Client Sample ID: SCH-SGWC-6
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.257		mg/L		103	75 - 125	2	20
Arsenic	<0.00028		1.00	0.920		mg/L		92	75 - 125	0	20
Barium	0.12		1.00	0.979		mg/L		86	75 - 125	1	20
Beryllium	<0.00027		0.500	0.443		mg/L		89	75 - 125	2	20
Cadmium	<0.00022		0.500	0.492		mg/L		98	75 - 125	2	20

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

Lab Sample ID: 680-231043-3 MSD
Matrix: Water
Analysis Batch: 428454

Client Sample ID: SCH-SGWC-6
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	10		25.0	35.6		mg/L		101	75 - 125	1	20
Chromium	<0.0015		0.500	0.495		mg/L		99	75 - 125	3	20
Cobalt	0.00030	J	0.500	0.468		mg/L		94	75 - 125	1	20
Iron	0.23		5.00	5.04		mg/L		96	75 - 125	1	20
Lead	<0.00038		0.500	0.483		mg/L		97	75 - 125	2	20
Magnesium	4.5		25.0	27.6		mg/L		92	75 - 125	0	20
Manganese	0.053		0.500	0.524		mg/L		94	75 - 125	3	20
Molybdenum	<0.00061		0.500	0.480		mg/L		96	75 - 125	1	20
Potassium	0.87		25.0	24.1		mg/L		93	75 - 125	1	20
Selenium	<0.00074		1.00	0.881		mg/L		88	75 - 125	0	20
Sodium	11		25.0	35.2		mg/L		95	75 - 125	0	20
Thallium	<0.00047		1.00	0.975		mg/L		97	75 - 125	2	20

Lab Sample ID: 680-231043-3 MSD
Matrix: Water
Analysis Batch: 428748

Client Sample ID: SCH-SGWC-6
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	<0.0013		0.500	0.497		mg/L		99	75 - 125	3	20

Lab Sample ID: 680-231043-3 MSD
Matrix: Water
Analysis Batch: 430527

Client Sample ID: SCH-SGWC-6
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.060		1.25	1.43		mg/L		114	75 - 125	2	20

Lab Sample ID: MB 180-430846/1-A
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/30/23 11:14	03/31/23 13:35	1

Lab Sample ID: LCS 180-430846/2-A
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.25	1.21		mg/L		97	80 - 120		

Lab Sample ID: 180-152511-E-1-K MS ^2
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	3.3		1.25	4.39		mg/L		84	75 - 125		

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

Lab Sample ID: 180-152511-E-1-L MSD ^2
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	3.3		1.25	4.75		mg/L		113	75 - 125	8	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-428554/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 12:51	1

Lab Sample ID: LCS 180-428554/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00243		mg/L		97	80 - 120

Lab Sample ID: 680-230924-C-1-C MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 428554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000930		mg/L		93	75 - 125

Lab Sample ID: 680-230924-C-1-D MSD
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 428554

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000918		mg/L		92	75 - 125	1	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-427449/2-A
Matrix: Water
Analysis Batch: 427454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		02/25/23 10:40	02/25/23 15:09	1

Lab Sample ID: LCS 180-427449/1-A
Matrix: Water
Analysis Batch: 427454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	17.1	18.3		mg/L		107	85 - 115

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 680-231043-1 MS
Matrix: Water
Analysis Batch: 427454

Client Sample ID: SCH-SGWA-2
Prep Type: Total/NA
Prep Batch: 427449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<2.1	cn	17.1	16.7		mg/L		98	75 - 125

Lab Sample ID: 680-231043-1 MSD
Matrix: Water
Analysis Batch: 427454

Client Sample ID: SCH-SGWA-2
Prep Type: Total/NA
Prep Batch: 427449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<2.1	cn	17.1	16.5		mg/L		97	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-427437/1
Matrix: Water
Analysis Batch: 427437

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/24/23 17:35	1

Lab Sample ID: LCS 180-427437/2
Matrix: Water
Analysis Batch: 427437

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	658		mg/L		99	85 - 115

Lab Sample ID: 680-231043-1 DU
Matrix: Water
Analysis Batch: 427437

Client Sample ID: SCH-SGWA-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	100		105		mg/L		3	10

Lab Sample ID: 680-231043-11 DU
Matrix: Water
Analysis Batch: 427437

Client Sample ID: SCH-SGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	440		450		mg/L		3	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-427481/29
Matrix: Water
Analysis Batch: 427481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/24/23 16:50	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/24/23 16:50	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/24/23 16:50	1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-427481/53
Matrix: Water
Analysis Batch: 427481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/24/23 18:57	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/24/23 18:57	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/24/23 18:57	1

Lab Sample ID: MB 180-427481/77
Matrix: Water
Analysis Batch: 427481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/24/23 20:56	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/24/23 20:56	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/24/23 20:56	1

Lab Sample ID: LCS 180-427481/52
Matrix: Water
Analysis Batch: 427481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	262		mg/L		103	90 - 110

Lab Sample ID: LCS 180-427481/76
Matrix: Water
Analysis Batch: 427481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	264		mg/L		103	90 - 110

Lab Sample ID: LLCS 180-427481/51
Matrix: Water
Analysis Batch: 427481

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	16.5		mg/L		108	75 - 125

Lab Sample ID: LLCS 180-427481/75
Matrix: Water
Analysis Batch: 427481

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	15.4		mg/L		101	75 - 125

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 680-231043-7 DU
Matrix: Water
Analysis Batch: 427481

Client Sample ID: SCH-SGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	18			16.6		mg/L				5	20
Bicarbonate Alkalinity as CaCO3	18			16.6		mg/L				5	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

Lab Sample ID: 680-231043-13 DU
Matrix: Water
Analysis Batch: 427481

Client Sample ID: SCH-AP1-FD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	17			17.3		mg/L				3	20
Bicarbonate Alkalinity as CaCO3	17			17.3		mg/L				3	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

HPLC/IC

Analysis Batch: 427383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	EPA 300.0 R2.1	
680-231043-2	SCH-SGWA-4	Total/NA	Water	EPA 300.0 R2.1	
680-231043-3	SCH-SGWC-6	Total/NA	Water	EPA 300.0 R2.1	
680-231043-4	SCH-SGWC-7	Total/NA	Water	EPA 300.0 R2.1	
680-231043-5	SCH-SGWC-8	Total/NA	Water	EPA 300.0 R2.1	
680-231043-6	SCH-SGWC-9	Total/NA	Water	EPA 300.0 R2.1	
680-231043-7	SCH-SGWC-10	Total/NA	Water	EPA 300.0 R2.1	
680-231043-8	SCH-SGWC-11	Total/NA	Water	EPA 300.0 R2.1	
680-231043-9	SCH-SGWC-17	Total/NA	Water	EPA 300.0 R2.1	
680-231043-10	SCH-SGWC-18	Total/NA	Water	EPA 300.0 R2.1	
680-231043-11	SCH-SGWC-19	Total/NA	Water	EPA 300.0 R2.1	
680-231043-12	SCH-SGWC-20	Total/NA	Water	EPA 300.0 R2.1	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	EPA 300.0 R2.1	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-427383/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-427383/7	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-231043-5 MS	SCH-SGWC-8	Total/NA	Water	EPA 300.0 R2.1	
680-231043-5 MSD	SCH-SGWC-8	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 428062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total Recoverable	Water	3005A	
680-231043-2	SCH-SGWA-4	Total Recoverable	Water	3005A	
680-231043-3	SCH-SGWC-6	Total Recoverable	Water	3005A	
680-231043-4	SCH-SGWC-7	Total Recoverable	Water	3005A	
680-231043-5	SCH-SGWC-8	Total Recoverable	Water	3005A	
680-231043-6	SCH-SGWC-9	Total Recoverable	Water	3005A	
680-231043-7	SCH-SGWC-10	Total Recoverable	Water	3005A	
680-231043-8	SCH-SGWC-11	Total Recoverable	Water	3005A	
680-231043-9	SCH-SGWC-17	Total Recoverable	Water	3005A	
680-231043-10	SCH-SGWC-18	Total Recoverable	Water	3005A	
680-231043-11	SCH-SGWC-19	Total Recoverable	Water	3005A	
680-231043-12	SCH-SGWC-20	Total Recoverable	Water	3005A	
680-231043-13	SCH-AP1-FD-1	Total Recoverable	Water	3005A	
680-231043-14	SCH-AP1-FD-2	Total Recoverable	Water	3005A	
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-231043-3 MS	SCH-SGWC-6	Total Recoverable	Water	3005A	
680-231043-3 MSD	SCH-SGWC-6	Total Recoverable	Water	3005A	

Analysis Batch: 428454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total Recoverable	Water	EPA 6020B	428062
680-231043-2	SCH-SGWA-4	Total Recoverable	Water	EPA 6020B	428062
680-231043-3	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062
680-231043-4	SCH-SGWC-7	Total Recoverable	Water	EPA 6020B	428062
680-231043-5	SCH-SGWC-8	Total Recoverable	Water	EPA 6020B	428062
680-231043-6	SCH-SGWC-9	Total Recoverable	Water	EPA 6020B	428062
680-231043-7	SCH-SGWC-10	Total Recoverable	Water	EPA 6020B	428062

Metals (Continued)

Analysis Batch: 428454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-8	SCH-SGWC-11	Total Recoverable	Water	EPA 6020B	428062
680-231043-9	SCH-SGWC-17	Total Recoverable	Water	EPA 6020B	428062
680-231043-10	SCH-SGWC-18	Total Recoverable	Water	EPA 6020B	428062
680-231043-11	SCH-SGWC-19	Total Recoverable	Water	EPA 6020B	428062
680-231043-12	SCH-SGWC-20	Total Recoverable	Water	EPA 6020B	428062
680-231043-13	SCH-AP1-FD-1	Total Recoverable	Water	EPA 6020B	428062
680-231043-14	SCH-AP1-FD-2	Total Recoverable	Water	EPA 6020B	428062
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428062
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428062
680-231043-3 MS	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062
680-231043-3 MSD	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062

Prep Batch: 428554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	7470A	
680-231043-2	SCH-SGWA-4	Total/NA	Water	7470A	
680-231043-3	SCH-SGWC-6	Total/NA	Water	7470A	
680-231043-4	SCH-SGWC-7	Total/NA	Water	7470A	
680-231043-5	SCH-SGWC-8	Total/NA	Water	7470A	
680-231043-6	SCH-SGWC-9	Total/NA	Water	7470A	
680-231043-7	SCH-SGWC-10	Total/NA	Water	7470A	
680-231043-8	SCH-SGWC-11	Total/NA	Water	7470A	
680-231043-9	SCH-SGWC-17	Total/NA	Water	7470A	
680-231043-10	SCH-SGWC-18	Total/NA	Water	7470A	
680-231043-11	SCH-SGWC-19	Total/NA	Water	7470A	
680-231043-12	SCH-SGWC-20	Total/NA	Water	7470A	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	7470A	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	7470A	
MB 180-428554/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428554/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-230924-C-1-C MS	Matrix Spike	Total/NA	Water	7470A	
680-230924-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 428715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	EPA 7470A	428554
680-231043-2	SCH-SGWA-4	Total/NA	Water	EPA 7470A	428554
680-231043-3	SCH-SGWC-6	Total/NA	Water	EPA 7470A	428554
680-231043-4	SCH-SGWC-7	Total/NA	Water	EPA 7470A	428554
680-231043-5	SCH-SGWC-8	Total/NA	Water	EPA 7470A	428554
680-231043-6	SCH-SGWC-9	Total/NA	Water	EPA 7470A	428554
680-231043-7	SCH-SGWC-10	Total/NA	Water	EPA 7470A	428554
680-231043-8	SCH-SGWC-11	Total/NA	Water	EPA 7470A	428554
680-231043-9	SCH-SGWC-17	Total/NA	Water	EPA 7470A	428554
680-231043-10	SCH-SGWC-18	Total/NA	Water	EPA 7470A	428554
680-231043-11	SCH-SGWC-19	Total/NA	Water	EPA 7470A	428554
680-231043-12	SCH-SGWC-20	Total/NA	Water	EPA 7470A	428554
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	EPA 7470A	428554
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	EPA 7470A	428554
MB 180-428554/1-A	Method Blank	Total/NA	Water	EPA 7470A	428554
LCS 180-428554/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428554

Metals (Continued)

Analysis Batch: 428715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230924-C-1-C MS	Matrix Spike	Total/NA	Water	EPA 7470A	428554
680-230924-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	428554

Analysis Batch: 428748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total Recoverable	Water	EPA 6020B	428062
680-231043-2	SCH-SGWA-4	Total Recoverable	Water	EPA 6020B	428062
680-231043-3	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062
680-231043-4	SCH-SGWC-7	Total Recoverable	Water	EPA 6020B	428062
680-231043-5	SCH-SGWC-8	Total Recoverable	Water	EPA 6020B	428062
680-231043-6	SCH-SGWC-9	Total Recoverable	Water	EPA 6020B	428062
680-231043-7	SCH-SGWC-10	Total Recoverable	Water	EPA 6020B	428062
680-231043-8	SCH-SGWC-11	Total Recoverable	Water	EPA 6020B	428062
680-231043-9	SCH-SGWC-17	Total Recoverable	Water	EPA 6020B	428062
680-231043-10	SCH-SGWC-18	Total Recoverable	Water	EPA 6020B	428062
680-231043-11	SCH-SGWC-19	Total Recoverable	Water	EPA 6020B	428062
680-231043-12	SCH-SGWC-20	Total Recoverable	Water	EPA 6020B	428062
680-231043-13	SCH-AP1-FD-1	Total Recoverable	Water	EPA 6020B	428062
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428062
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428062
680-231043-3 MS	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062
680-231043-3 MSD	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062

Analysis Batch: 430527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total Recoverable	Water	EPA 6020B	428062
680-231043-2	SCH-SGWA-4	Total Recoverable	Water	EPA 6020B	428062
680-231043-3	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062
680-231043-4	SCH-SGWC-7	Total Recoverable	Water	EPA 6020B	428062
680-231043-5	SCH-SGWC-8	Total Recoverable	Water	EPA 6020B	428062
680-231043-7	SCH-SGWC-10	Total Recoverable	Water	EPA 6020B	428062
680-231043-8	SCH-SGWC-11	Total Recoverable	Water	EPA 6020B	428062
680-231043-9	SCH-SGWC-17	Total Recoverable	Water	EPA 6020B	428062
680-231043-13	SCH-AP1-FD-1	Total Recoverable	Water	EPA 6020B	428062
680-231043-14	SCH-AP1-FD-2	Total Recoverable	Water	EPA 6020B	428062
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428062
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428062
680-231043-3 MS	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062
680-231043-3 MSD	SCH-SGWC-6	Total Recoverable	Water	EPA 6020B	428062

Analysis Batch: 430656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-10	SCH-SGWC-18	Total Recoverable	Water	EPA 6020B	428062

Prep Batch: 430846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-6	SCH-SGWC-9	Total Recoverable	Water	3005A	
680-231043-11	SCH-SGWC-19	Total Recoverable	Water	3005A	
680-231043-12	SCH-SGWC-20	Total Recoverable	Water	3005A	
MB 180-430846/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-430846/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 430846 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-152511-E-1-K MS ^2	Matrix Spike	Total Recoverable	Water	3005A	
180-152511-E-1-L MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 431009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-6	SCH-SGWC-9	Total Recoverable	Water	EPA 6020B	430846
680-231043-11	SCH-SGWC-19	Total Recoverable	Water	EPA 6020B	430846
680-231043-12	SCH-SGWC-20	Total Recoverable	Water	EPA 6020B	430846
MB 180-430846/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	430846
LCS 180-430846/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	430846
180-152511-E-1-K MS ^2	Matrix Spike	Total Recoverable	Water	EPA 6020B	430846
180-152511-E-1-L MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	430846

General Chemistry

Analysis Batch: 427437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	SM 2540C	
680-231043-2	SCH-SGWA-4	Total/NA	Water	SM 2540C	
680-231043-3	SCH-SGWC-6	Total/NA	Water	SM 2540C	
680-231043-4	SCH-SGWC-7	Total/NA	Water	SM 2540C	
680-231043-5	SCH-SGWC-8	Total/NA	Water	SM 2540C	
680-231043-6	SCH-SGWC-9	Total/NA	Water	SM 2540C	
680-231043-7	SCH-SGWC-10	Total/NA	Water	SM 2540C	
680-231043-8	SCH-SGWC-11	Total/NA	Water	SM 2540C	
680-231043-9	SCH-SGWC-17	Total/NA	Water	SM 2540C	
680-231043-10	SCH-SGWC-18	Total/NA	Water	SM 2540C	
680-231043-11	SCH-SGWC-19	Total/NA	Water	SM 2540C	
680-231043-12	SCH-SGWC-20	Total/NA	Water	SM 2540C	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	SM 2540C	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	SM 2540C	
MB 180-427437/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427437/2	Lab Control Sample	Total/NA	Water	SM 2540C	
680-231043-1 DU	SCH-SGWA-2	Total/NA	Water	SM 2540C	
680-231043-11 DU	SCH-SGWC-19	Total/NA	Water	SM 2540C	

Prep Batch: 427449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	9030B	
680-231043-2	SCH-SGWA-4	Total/NA	Water	9030B	
680-231043-3	SCH-SGWC-6	Total/NA	Water	9030B	
680-231043-4	SCH-SGWC-7	Total/NA	Water	9030B	
680-231043-5	SCH-SGWC-8	Total/NA	Water	9030B	
680-231043-6	SCH-SGWC-9	Total/NA	Water	9030B	
680-231043-7	SCH-SGWC-10	Total/NA	Water	9030B	
680-231043-8	SCH-SGWC-11	Total/NA	Water	9030B	
680-231043-9	SCH-SGWC-17	Total/NA	Water	9030B	
680-231043-10	SCH-SGWC-18	Total/NA	Water	9030B	
680-231043-11	SCH-SGWC-19	Total/NA	Water	9030B	
680-231043-12	SCH-SGWC-20	Total/NA	Water	9030B	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	9030B	

General Chemistry (Continued)

Prep Batch: 427449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	9030B	
MB 180-427449/2-A	Method Blank	Total/NA	Water	9030B	
LCS 180-427449/1-A	Lab Control Sample	Total/NA	Water	9030B	
680-231043-1 MS	SCH-SGWA-2	Total/NA	Water	9030B	
680-231043-1 MSD	SCH-SGWA-2	Total/NA	Water	9030B	

Analysis Batch: 427454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	EPA 9034	427449
680-231043-2	SCH-SGWA-4	Total/NA	Water	EPA 9034	427449
680-231043-3	SCH-SGWC-6	Total/NA	Water	EPA 9034	427449
680-231043-4	SCH-SGWC-7	Total/NA	Water	EPA 9034	427449
680-231043-5	SCH-SGWC-8	Total/NA	Water	EPA 9034	427449
680-231043-6	SCH-SGWC-9	Total/NA	Water	EPA 9034	427449
680-231043-7	SCH-SGWC-10	Total/NA	Water	EPA 9034	427449
680-231043-8	SCH-SGWC-11	Total/NA	Water	EPA 9034	427449
680-231043-9	SCH-SGWC-17	Total/NA	Water	EPA 9034	427449
680-231043-10	SCH-SGWC-18	Total/NA	Water	EPA 9034	427449
680-231043-11	SCH-SGWC-19	Total/NA	Water	EPA 9034	427449
680-231043-12	SCH-SGWC-20	Total/NA	Water	EPA 9034	427449
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	EPA 9034	427449
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	EPA 9034	427449
MB 180-427449/2-A	Method Blank	Total/NA	Water	EPA 9034	427449
LCS 180-427449/1-A	Lab Control Sample	Total/NA	Water	EPA 9034	427449
680-231043-1 MS	SCH-SGWA-2	Total/NA	Water	EPA 9034	427449
680-231043-1 MSD	SCH-SGWA-2	Total/NA	Water	EPA 9034	427449

Analysis Batch: 427481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	SM2320 B	
680-231043-2	SCH-SGWA-4	Total/NA	Water	SM2320 B	
680-231043-3	SCH-SGWC-6	Total/NA	Water	SM2320 B	
680-231043-4	SCH-SGWC-7	Total/NA	Water	SM2320 B	
680-231043-5	SCH-SGWC-8	Total/NA	Water	SM2320 B	
680-231043-6	SCH-SGWC-9	Total/NA	Water	SM2320 B	
680-231043-7	SCH-SGWC-10	Total/NA	Water	SM2320 B	
680-231043-8	SCH-SGWC-11	Total/NA	Water	SM2320 B	
680-231043-9	SCH-SGWC-17	Total/NA	Water	SM2320 B	
680-231043-10	SCH-SGWC-18	Total/NA	Water	SM2320 B	
680-231043-11	SCH-SGWC-19	Total/NA	Water	SM2320 B	
680-231043-12	SCH-SGWC-20	Total/NA	Water	SM2320 B	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	SM2320 B	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	SM2320 B	
MB 180-427481/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-427481/53	Method Blank	Total/NA	Water	SM2320 B	
MB 180-427481/77	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427481/52	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-427481/76	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427481/51	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427481/75	Lab Control Sample	Total/NA	Water	SM2320 B	
680-231043-7 DU	SCH-SGWC-10	Total/NA	Water	SM2320 B	

General Chemistry (Continued)

Analysis Batch: 427481 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-13 DU	SCH-AP1-FD-1	Total/NA	Water	SM2320 B	

Analysis Batch: 429994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	SM 3500	
680-231043-2	SCH-SGWA-4	Total/NA	Water	SM 3500	
680-231043-3	SCH-SGWC-6	Total/NA	Water	SM 3500	
680-231043-4	SCH-SGWC-7	Total/NA	Water	SM 3500	
680-231043-5	SCH-SGWC-8	Total/NA	Water	SM 3500	
680-231043-6	SCH-SGWC-9	Total/NA	Water	SM 3500	
680-231043-7	SCH-SGWC-10	Total/NA	Water	SM 3500	
680-231043-8	SCH-SGWC-11	Total/NA	Water	SM 3500	
680-231043-9	SCH-SGWC-17	Total/NA	Water	SM 3500	
680-231043-10	SCH-SGWC-18	Total/NA	Water	SM 3500	
680-231043-11	SCH-SGWC-19	Total/NA	Water	SM 3500	
680-231043-12	SCH-SGWC-20	Total/NA	Water	SM 3500	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	SM 3500	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	SM 3500	

Field Service / Mobile Lab

Analysis Batch: 428204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	Field Sampling	
680-231043-2	SCH-SGWA-4	Total/NA	Water	Field Sampling	
680-231043-3	SCH-SGWC-6	Total/NA	Water	Field Sampling	
680-231043-4	SCH-SGWC-7	Total/NA	Water	Field Sampling	
680-231043-5	SCH-SGWC-8	Total/NA	Water	Field Sampling	
680-231043-6	SCH-SGWC-9	Total/NA	Water	Field Sampling	
680-231043-7	SCH-SGWC-10	Total/NA	Water	Field Sampling	
680-231043-8	SCH-SGWC-11	Total/NA	Water	Field Sampling	
680-231043-9	SCH-SGWC-17	Total/NA	Water	Field Sampling	
680-231043-10	SCH-SGWC-18	Total/NA	Water	Field Sampling	
680-231043-11	SCH-SGWC-19	Total/NA	Water	Field Sampling	
680-231043-12	SCH-SGWC-20	Total/NA	Water	Field Sampling	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	Field Sampling	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	Field Sampling	

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWA-2

Date Collected: 02/22/23 09:45
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 16:27	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 14:59	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 22:39	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 11:35	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:05	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:11	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 20:06	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 09:45	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWA-4

Date Collected: 02/22/23 11:30
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 16:45	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:03	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 22:42	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 11:38	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:06	RJR	EET PIT
	Instrument ID: HGZ									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWA-4

Lab Sample ID: 680-231043-2

Date Collected: 02/22/23 11:30

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:18	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 20:11	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 11:30	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-6

Lab Sample ID: 680-231043-3

Date Collected: 02/22/23 13:20

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 17:40	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:07	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 22:46	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 11:41	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:08	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:21	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 20:16	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 13:20	FDS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-7

Date Collected: 02/22/23 15:30
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 17:59	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:25	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:12	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 11:49	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:09	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:23	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 20:21	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 15:30	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-8

Date Collected: 02/22/23 11:33
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 18:54	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:40	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:15	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 11:52	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:10	RJR	EET PIT
	Instrument ID: HGZ									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-8

Lab Sample ID: 680-231043-5

Date Collected: 02/22/23 11:33

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:26	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 20:26	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 11:33	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-9

Lab Sample ID: 680-231043-6

Date Collected: 02/22/23 09:45

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 18:17	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430846	03/30/23 11:14	JBP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431009	03/31/23 16:30	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:43	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:19	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:11	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:28	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 20:32	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 09:45	FDS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-10

Date Collected: 02/22/23 15:04
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 18:36	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:47	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:23	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 11:58	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:12	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:35	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:00	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 15:04	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-11

Date Collected: 02/22/23 14:30
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 19:50	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:50	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:26	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 12:07	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:13	RJR	EET PIT
	Instrument ID: HGZ									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-11

Lab Sample ID: 680-231043-8

Date Collected: 02/22/23 14:30

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:38	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:09	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 14:30	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-17

Lab Sample ID: 680-231043-9

Date Collected: 02/22/23 14:21

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 20:08	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:54	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:30	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 12:10	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:14	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:40	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:13	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 14:21	FDS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-18

Lab Sample ID: 680-231043-10

Date Collected: 02/22/23 11:48

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 20:27	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 15:58	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:34	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			430656	03/28/23 14:16	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:15	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:43	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:19	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 11:48	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-19

Lab Sample ID: 680-231043-11

Date Collected: 02/22/23 12:07

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 22:17	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430846	03/30/23 11:15	JBP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431009	03/31/23 16:33	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:01	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:37	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:19	RJR	EET PIT
	Instrument ID: HGZ									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-SGWC-19

Lab Sample ID: 680-231043-11

Date Collected: 02/22/23 12:07

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:45	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:22	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 12:07	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-20

Lab Sample ID: 680-231043-12

Date Collected: 02/22/23 10:13

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 21:22	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430846	03/30/23 11:15	JBP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431009	03/31/23 16:37	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:05	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:48	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:20	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:47	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:27	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 10:13	FDS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231043-1

Client Sample ID: SCH-AP1-FD-1

Date Collected: 02/22/23 00:00
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 21:40	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:09	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428748	03/09/23 23:52	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 12:31	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:21	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:50	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:37	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 00:00	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FD-2

Date Collected: 02/22/23 00:00
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427383	02/24/23 21:59	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:23	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 12:34	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428554	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:22	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427449	02/25/23 10:40	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427454	02/25/23 15:52	BAB	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-231043-1
Project/Site: CCR Plant Scherer - Ash Pond

Client Sample ID: SCH-AP1-FD-2
Lab Sample ID: 680-231043-14
Date Collected: 02/22/23 00:00
Matrix: Water
Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427437	02/24/23 17:35	LWM	EET PIT
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427481	02/24/23 21:47	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428204	02/22/23 00:00	FDS	EET PIT
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231043-1
Project/Site: CCR Plant Scherer - Ash Pond

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	03-31-23
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-23
US Fish & Wildlife	US Federal Programs	058448	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23
Wisconsin	State	998027800	08-31-23

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

Method Summary

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

Job ID: 680-231043-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM 3500	Iron, Ferric	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

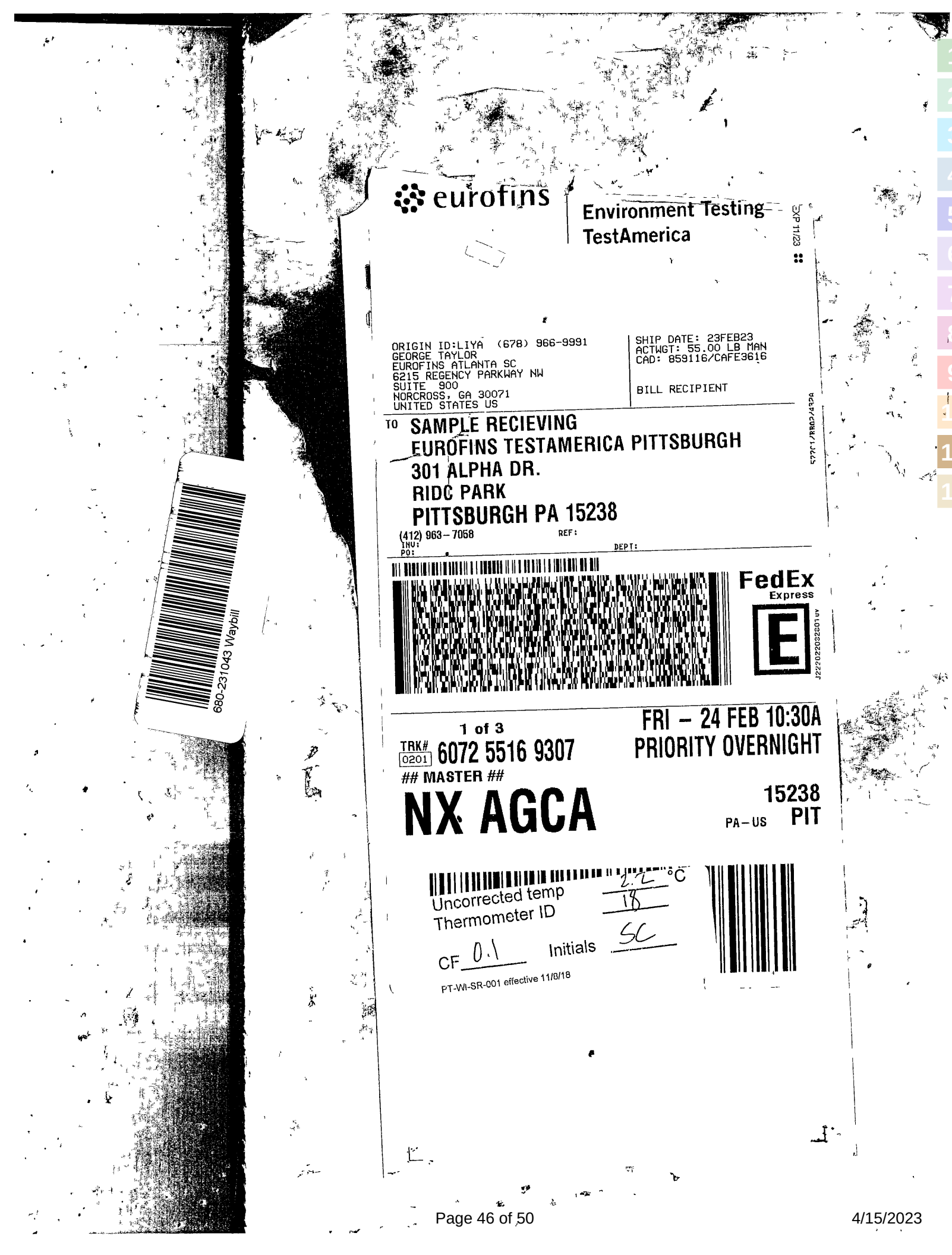
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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


eurofins
Environment Testing
TestAmerica
EXP 11/23
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 23FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
DEPT:
FedEx
Express
1 of 3
TRK# 0201 6072 5516 9307
MASTER
NX AGCA
FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT
15238
PA-US PIT
680-231043 Waybill
Uncorrected temp 2.2 °C
Thermometer ID 18
CF 0.1 Initials SC
PT-WI-SR-001 effective 11/8/18

RT 198 FZ 197 10:30 A 9318 02.24

Part# 159469-434 MTW EXP 11/23

eurofins | Environment Testing TestAmerica

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 23FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616

BILL RECIPIENT

TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058 REF:
INV:
PO: DEPT:

Uncorrected temp 2.3 °C
Thermometer ID 18
CF 0.1 Initials SC
PT-WI-SR-001 effective 11/8/18

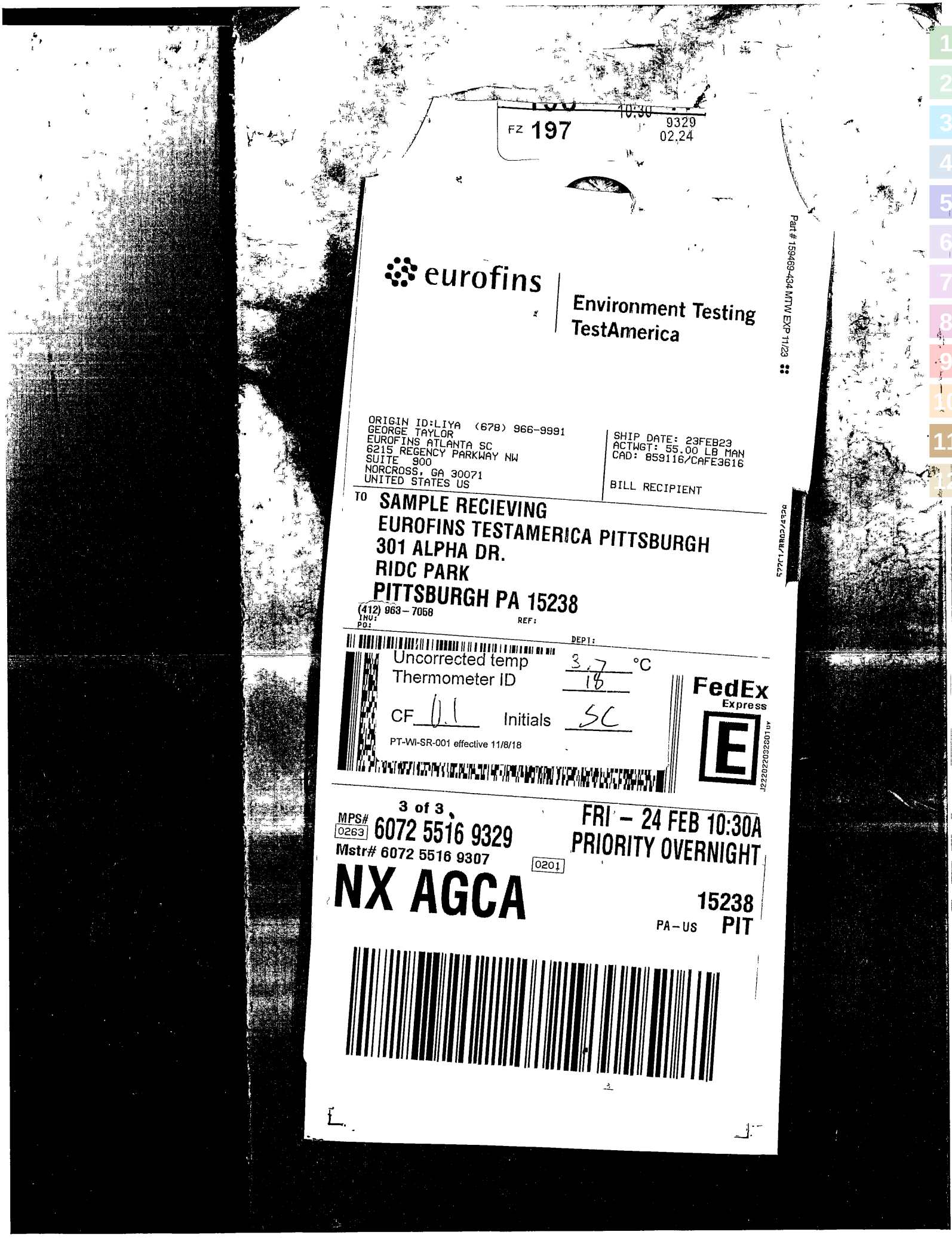
FedEx Express

2 of 3
MPS# 0263 6072 5516 9318
Mstr# 6072 5516 9307 0201

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

NX AGCA

15238
PA-US PIT


FZ 197
10:30
9329
02.24
Part # 159469-434 MTW EXP 11/23
eurofins
Environment Testing
TestAmerica
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
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TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:
Uncorrected temp 3.7 °C
Thermometer ID 18
CF 0.1 Initials SC
PT-WI-SR-001 effective 11/8/18
FedEx Express
3 of 3
MPS# 0263 6072 5516 9329
Mstr# 6072 5516 9307
FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT
0201
NX AGCA
15238
PA - US
PIT

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412 963 7058 fax 412 963 2468

680-231043 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/23/23	COC No
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: Elaine COOK	1 of 1 COCs
Southern Company	**Analysis Turnaround Time**			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client
JAbraham@southernco com	☐ 2 weeks			Lab Sampling
Project Name: CCR - Plant Scherer Ash Pond	☐ 1 week			
Site Georgia	☐ 2 days			Job / SDG No
Project #: 68027798	☐ 1 day			

Radiem TO ST Louis

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3							Sample Specific Notes
SCH-SGWA-2	2/22/2023	9 45	G	WG	10	N	N	X	X	X	X	X	X	X	X							pH= 6 85, Fe2= 0 0, collected at 09.45, analyzed 09 50
SCH-SGWA-4	2/22/2023	11 30	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 6 36, Fe2= 0 0, collected at 11 30 analyzed 11 35
SCH-SGWC-6	2/22/2023	13 20	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 6 28, Fe2= 0 0, collected at 13 20, analyzed 13 25
SCH-SGWC-7	2/22/2023	15 30	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 6 51, Fe2= 0 0, collected at 15 30, analyzed at 15 35
SCH-SGWC-8	2/22/2023	11 33	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 6 51, Fe2= 0 0, collected at 11 33, analyzed at 11 38
SCH-SGWC-9	2/22/2023	9 45	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 6 14, Fe2= 0 0, collected at 09 45, analyzed at 09 50
SCH-SGWC-10	2/22/2023	15 04	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 5 23, Fe2= 0 0, collected at 15 04, analyzed at 15 09
SCH-SGWC-11	2/22/2023	14 30	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 5 10, Fe2= 0 5, collected at 14 30, analyzed at 14 35
SCH-SGWC-17	2/22/2023	14 21	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 6 23, Fe2= 0 0, collected at 14 21, analyzed at 14 26
SCH-SGWC-18	2/22/2023	11 48	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 5 00, Fe2= 0 0, collected at 11 48, analyzed at 11 53
SCH-SGWC-19	2/22/2023	12 07	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 5 53, Fe2= 0.0, collected at 12 07, analyzed at 12 12
SCH-SGWC-20	02/22/203	10 13	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 4 38, Fe2= 0 0, collected at 10 13, analyzed at 10 18
SCH-AP1-FD-1	2/22/2023	-	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 5 23, Fe2= 0.0, collected at 15 04, analyzed at 15 09
SCH-AP1-FD-2	2/22/2023	-	G	WG	8	N	N	X	X	X	X	X	X	X	X							pH= 5 10, Fe2= 0 5, collected at 14 30, analyzed at 14 35
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	5	1	1	4							

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

08:20

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd._____ Corr'd._____		Therm ID No _____
Relinquished by: DVANS FUSON	Company: WSP	Date/Time: 02/23/23	Received by: Elaine COOK	Company: Courier NOW	Date/Time: 2/23/23 @ 8:30
Relinquished by: Elaine COOK	Company: Courier NOW	Date/Time: 02/23/23	Received by:	Company:	Date/Time: 02/23/23 10:20
Relinquished by: 2/23/23	Company: 16:00	Date/Time:	Received in Laboratory by:	Company: FEDEX	Date/Time: 2-24-23 0910

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/15/2023

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231043-1

Login Number: 231043
List Number: 4
Creator: Weimerskirk, Angie

List Source: Eurofins Pittsburgh
List Creation: 04/14/23 10:46 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/6/2023 5:40:00 PM

JOB DESCRIPTION

CCR Plant Scherer - Ash Pond

JOB NUMBER

680-231043-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
4/6/2023 5:40:00 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-231043-2

Qualifiers

Rad

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

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-231043-2
Project/Site: CCR Plant Scherer - Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231043-1	SCH-SGWA-2	Water	02/22/23 09:45	02/24/23 09:30
680-231043-2	SCH-SGWA-4	Water	02/22/23 11:30	02/24/23 09:30
680-231043-3	SCH-SGWC-6	Water	02/22/23 13:20	02/24/23 09:30
680-231043-4	SCH-SGWC-7	Water	02/22/23 15:30	02/24/23 09:30
680-231043-5	SCH-SGWC-8	Water	02/22/23 11:33	02/24/23 09:30
680-231043-6	SCH-SGWC-9	Water	02/22/23 09:45	02/24/23 09:30
680-231043-7	SCH-SGWC-10	Water	02/22/23 15:04	02/24/23 09:30
680-231043-8	SCH-SGWC-11	Water	02/22/23 14:30	02/24/23 09:30
680-231043-9	SCH-SGWC-17	Water	02/22/23 14:21	02/24/23 09:30
680-231043-10	SCH-SGWC-18	Water	02/22/23 11:48	02/24/23 09:30
680-231043-11	SCH-SGWC-19	Water	02/22/23 12:07	02/24/23 09:30
680-231043-12	SCH-SGWC-20	Water	02/22/23 10:13	02/24/23 09:30
680-231043-13	SCH-AP1-FD-1	Water	02/22/23 00:00	02/24/23 09:30
680-231043-14	SCH-AP1-FD-2	Water	02/22/23 00:00	02/24/23 09:30

Job ID: 680-231043-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231043-2

Receipt
The samples were received on 2/24/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.3°C, 2.4°C and 3.8°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 batch 603678Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-SGWA-2 (680-231043-1), SCH-SGWA-4 (680-231043-2), SCH-SGWC-6 (680-231043-3), SCH-SGWC-7 (680-231043-4), SCH-SGWC-8 (680-231043-5), SCH-SGWC-9 (680-231043-6), SCH-SGWC-10 (680-231043-7), SCH-SGWC-11 (680-231043-8), SCH-SGWC-17 (680-231043-9), SCH-SGWC-18 (680-231043-10), SCH-SGWC-19 (680-231043-11), SCH-SGWC-20 (680-231043-12), SCH-AP1-FD-1 (680-231043-13), SCH-AP1-FD-2 (680-231043-14), (LCS 160-603679/2-A), (MB 160-603679/1-A), (280-173234-C-1-A), (280-173234-C-1-B MS) and (280-173234-C-1-C MSD)

Method 9320_Ra228: Radium-228 batch 603680Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-SGWA-2 (680-231043-1), SCH-SGWA-4 (680-231043-2), SCH-SGWC-6 (680-231043-3), SCH-SGWC-7 (680-231043-4), SCH-SGWC-8 (680-231043-5), SCH-SGWC-9 (680-231043-6), SCH-SGWC-10 (680-231043-7), SCH-SGWC-11 (680-231043-8), SCH-SGWC-17 (680-231043-9), SCH-SGWC-18 (680-231043-10), SCH-SGWC-19 (680-231043-11), SCH-SGWC-20 (680-231043-12), SCH-AP1-FD-1 (680-231043-13), SCH-AP1-FD-2 (680-231043-14), (LCS 160-603680/2-A), (MB 160-603680/1-A), (280-173234-C-1-D), (280-173234-C-1-E MS) and (280-173234-C-1-F MSD)

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

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

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

Job ID: 680-231043-2

Client Sample ID: SCH-SGWA-2

Lab Sample ID: 680-231043-1

Date Collected: 02/22/23 09:45

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0400	U	0.0708	0.0709	1.00	0.156	pCi/L	03/15/23 09:21	04/06/23 07:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:43*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00445	U	0.276	0.276	1.00	0.520	pCi/L	03/15/23 09:39	03/29/23 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:13*	*1*
Y Carrier	*88.6*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:13*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0355	U	0.285	0.285	5.00	0.520	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWA-4

Lab Sample ID: 680-231043-2

Date Collected: 02/22/23 11:30

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0402	U	0.0499	0.0500	1.00	0.124	pCi/L	03/15/23 09:21	04/06/23 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:46*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0612	U	0.370	0.370	1.00	0.668	pCi/L	03/15/23 09:39	03/29/23 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:13*	*1*
Y Carrier	*83.4*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:13*	*1*

Client Sample ID: SCH-SGWA-4

Lab Sample ID: 680-231043-2

Date Collected: 02/22/23 11:30

Matrix: Water

Date Received: 02/24/23 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0211	U	0.373	0.373	5.00	0.668	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-6

Lab Sample ID: 680-231043-3

Date Collected: 02/22/23 13:20

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0262	U	0.0704	0.0704	1.00	0.130	pCi/L	03/15/23 09:21	04/06/23 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.7*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:46*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0399	U	0.310	0.310	1.00	0.578	pCi/L	03/15/23 09:39	03/29/23 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.7*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:14*	*1*
Y Carrier	*82.2*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0662	U	0.318	0.318	5.00	0.578	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-7

Lab Sample ID: 680-231043-4

Date Collected: 02/22/23 15:30

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0113	U	0.0565	0.0565	1.00	0.122	pCi/L	03/15/23 09:21	04/06/23 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:46*	*1*

Client Sample ID: SCH-SGWC-7

Lab Sample ID: 680-231043-4

Date Collected: 02/22/23 15:30

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.180	U	0.409	0.409	1.00	0.786	pCi/L	03/15/23 09:39	03/29/23 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:14*	*1*
Y Carrier	*80.4*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.191	U	0.413	0.413	5.00	0.786	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-8

Lab Sample ID: 680-231043-5

Date Collected: 02/22/23 11:33

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.306**		0.111	0.115	1.00	0.110	pCi/L	03/15/23 09:21	04/06/23 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:46*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.560	U	0.416	0.419	1.00	0.640	pCi/L	03/15/23 09:39	03/29/23 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:16*	*1*
Y Carrier	*80.7*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.866**		0.431	0.434	5.00	0.640	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-9

Lab Sample ID: 680-231043-6

Date Collected: 02/22/23 09:45

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0346	U	0.0708	0.0709	1.00	0.127	pCi/L	03/15/23 09:21	04/06/23 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:46*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.438	U	0.358	0.360	1.00	0.555	pCi/L	03/15/23 09:39	03/29/23 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:16*	*1*
Y Carrier	*85.2*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.473	U	0.365	0.367	5.00	0.555	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-10

Lab Sample ID: 680-231043-7

Date Collected: 02/22/23 15:04

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0285	U	0.0661	0.0662	1.00	0.120	pCi/L	03/15/23 09:21	04/06/23 07:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:47*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.257	U	0.339	0.340	1.00	0.566	pCi/L	03/15/23 09:39	03/29/23 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:16*	*1*
Y Carrier	*85.2*		*30 - 110*	*03/15/23 09:39*	*03/29/23 12:16*	*1*

Client Sample ID: SCH-SGWC-10

Lab Sample ID: 680-231043-7

Date Collected: 02/22/23 15:04

Matrix: Water

Date Received: 02/24/23 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.285	U	0.345	0.346	5.00	0.566	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-11

Lab Sample ID: 680-231043-8

Date Collected: 02/22/23 14:30

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0352	U	0.0753	0.0754	1.00	0.136	pCi/L	03/15/23 09:21	04/06/23 07:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.9*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:47*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.207	U	0.253	0.254	1.00	0.558	pCi/L	03/15/23 09:39	03/29/23 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.9*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:51*	*1*
Y Carrier	*85.2*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:51*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.172	U	0.264	0.265	5.00	0.558	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-17

Lab Sample ID: 680-231043-9

Date Collected: 02/22/23 14:21

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0198	U	0.0691	0.0691	1.00	0.145	pCi/L	03/15/23 09:21	04/06/23 07:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.2*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:47*	*1*

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

Job ID: 680-231043-2

Client Sample ID: SCH-SGWC-17

Lab Sample ID: 680-231043-9

Date Collected: 02/22/23 14:21

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.112	U	0.240	0.241	1.00	0.425	pCi/L	03/15/23 09:39	03/29/23 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.2*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:51*	*1*
Y Carrier	*88.6*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:51*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0917	U	0.250	0.251	5.00	0.425	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-18

Lab Sample ID: 680-231043-10

Date Collected: 02/22/23 11:48

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0704	U	0.0782	0.0784	1.00	0.126	pCi/L	03/15/23 09:21	04/06/23 07:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:47*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0420	U	0.290	0.290	1.00	0.558	pCi/L	03/15/23 09:39	03/29/23 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*
Y Carrier	*83.4*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0285	U	0.300	0.300	5.00	0.558	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-19

Lab Sample ID: 680-231043-11

Date Collected: 02/22/23 12:07

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0106	U	0.0576	0.0576	1.00	0.122	pCi/L	03/15/23 09:21	04/06/23 07:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:47*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.308	U	0.316	0.317	1.00	0.510	pCi/L	03/15/23 09:39	03/29/23 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*
Y Carrier	*84.1*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.297	U	0.321	0.322	5.00	0.510	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-SGWC-20

Lab Sample ID: 680-231043-12

Date Collected: 02/22/23 10:13

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0166	U	0.0554	0.0554	1.00	0.121	pCi/L	03/15/23 09:21	04/06/23 07:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.170	U	0.284	0.284	1.00	0.486	pCi/L	03/15/23 09:39	03/29/23 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*
Y Carrier	*86.4*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*

Client Sample ID: SCH-SGWC-20

Lab Sample ID: 680-231043-12

Date Collected: 02/22/23 10:13

Matrix: Water

Date Received: 02/24/23 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.154	U	0.289	0.289	5.00	0.486	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-AP1-FD-1

Lab Sample ID: 680-231043-13

Date Collected: 02/22/23 00:00

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.114**		0.0779	0.0786	1.00	0.107	pCi/L	03/15/23 09:21	04/06/23 07:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:35*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.133	U	0.275	0.275	1.00	0.481	pCi/L	03/15/23 09:39	03/29/23 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*
Y Carrier	*83.4*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.247	U	0.286	0.286	5.00	0.481	pCi/L		04/06/23 14:36	1

Client Sample ID: SCH-AP1-FD-2

Lab Sample ID: 680-231043-14

Date Collected: 02/22/23 00:00

Matrix: Water

Date Received: 02/24/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0730	U	0.0597	0.0601	1.00	0.0823	pCi/L	03/15/23 09:21	04/06/23 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:38*	*1*

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

Job ID: 680-231043-2

Client Sample ID: SCH-AP1-FD-2

Date Collected: 02/22/23 00:00
Date Received: 02/24/23 09:30

Lab Sample ID: 680-231043-14

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.309	U	0.309	0.311	1.00	0.496	pCi/L	03/15/23 09:39	03/29/23 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*
Y Carrier	*85.6*		*30 - 110*	*03/15/23 09:39*	*03/29/23 11:52*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.382	U	0.315	0.317	5.00	0.496	pCi/L		04/06/23 14:36	1

Tracer/Carrier Summary

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

Job ID: 680-231043-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water | **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
280-173234-C-1-B MS	Matrix Spike	85.3
280-173234-C-1-C MSD	Matrix Spike Duplicate	84.7
680-231043-1	SCH-SGWA-2	89.3
680-231043-2	SCH-SGWA-4	85.6
680-231043-3	SCH-SGWC-6	77.7
680-231043-4	SCH-SGWC-7	83.1
680-231043-5	SCH-SGWC-8	85.6
680-231043-6	SCH-SGWC-9	83.6
680-231043-7	SCH-SGWC-10	86.4
680-231043-8	SCH-SGWC-11	74.9
680-231043-9	SCH-SGWC-17	86.2
680-231043-10	SCH-SGWC-18	85.0
680-231043-11	SCH-SGWC-19	90.7
680-231043-12	SCH-SGWC-20	89.8
680-231043-13	SCH-AP1-FD-1	92.1
680-231043-14	SCH-AP1-FD-2	86.7
LCS 160-603679/2-A	Lab Control Sample	88.1
MB 160-603679/1-A	Method Blank	84.7

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water | **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
280-173234-C-1-E MS	Matrix Spike	85.3	84.1
280-173234-C-1-F MSD	Matrix Spike Duplicate	84.7	88.2
680-231043-1	SCH-SGWA-2	89.3	88.6
680-231043-2	SCH-SGWA-4	85.6	83.4
680-231043-3	SCH-SGWC-6	77.7	82.2
680-231043-4	SCH-SGWC-7	83.1	80.4
680-231043-5	SCH-SGWC-8	85.6	80.7
680-231043-6	SCH-SGWC-9	83.6	85.2
680-231043-7	SCH-SGWC-10	86.4	85.2
680-231043-8	SCH-SGWC-11	74.9	85.2
680-231043-9	SCH-SGWC-17	86.2	88.6
680-231043-10	SCH-SGWC-18	85.0	83.4
680-231043-11	SCH-SGWC-19	90.7	84.1
680-231043-12	SCH-SGWC-20	89.8	86.4
680-231043-13	SCH-AP1-FD-1	92.1	83.4
680-231043-14	SCH-AP1-FD-2	86.7	85.6
LCS 160-603680/2-A	Lab Control Sample	88.1	88.6
MB 160-603680/1-A	Method Blank	84.7	83.7

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-603679/1-A
Matrix: Water
Analysis Batch: 606324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603679

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01389	U	0.0614	0.0615	1.00	0.119	pCi/L	03/15/23 09:21	04/06/23 07:41	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*30 - 110*	*03/15/23 09:21*	*04/06/23 07:41*	*1*

Lab Sample ID: LCS 160-603679/2-A
Matrix: Water
Analysis Batch: 606324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603679

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	12.10		1.26	1.00	0.119	pCi/L	107	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*88.1*		*30 - 110*

Lab Sample ID: 280-173234-C-1-B MS
Matrix: Water
Analysis Batch: 606324

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 603679

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.0385	U	11.3	10.10		1.07	1.00	0.102	pCi/L	89	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*85.3*		*30 - 110*

Lab Sample ID: 280-173234-C-1-C MSD
Matrix: Water
Analysis Batch: 606324

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 603679

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.0385	U	11.3	10.30		1.10	1.00	0.113	pCi/L	91	60 - 140	0.1	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*84.7*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-603680/1-A
Matrix: Water
Analysis Batch: 605413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603680

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1238	U	0.348	0.348	1.00	0.671	pCi/L	03/15/23 09:39	03/29/23 12:11	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		30 - 110	03/15/23 09:39	03/29/23 12:11	1
Y Carrier	83.7		30 - 110	03/15/23 09:39	03/29/23 12:11	1

Lab Sample ID: LCS 160-603680/2-A
Matrix: Water
Analysis Batch: 605413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603680

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.08	9.950		1.33	1.00	0.505	pCi/L	123	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.1		30 - 110
Y Carrier	88.6		30 - 110

Lab Sample ID: 280-173234-C-1-E MS
Matrix: Water
Analysis Batch: 605413

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 603680

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.395	U	8.06	8.725		1.24	1.00	0.517	pCi/L	103	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	85.3		30 - 110
Y Carrier	84.1		30 - 110

Lab Sample ID: 280-173234-C-1-F MSD
Matrix: Water
Analysis Batch: 605413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 603680

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.395	U	8.06	8.703		1.23	1.00	0.510	pCi/L	103	60 - 140	0.01	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	84.7		30 - 110
Y Carrier	88.2		30 - 110

QC Association Summary

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

Job ID: 680-231043-2

Rad

Prep Batch: 603679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	PrecSep-21	
680-231043-2	SCH-SGWA-4	Total/NA	Water	PrecSep-21	
680-231043-3	SCH-SGWC-6	Total/NA	Water	PrecSep-21	
680-231043-4	SCH-SGWC-7	Total/NA	Water	PrecSep-21	
680-231043-5	SCH-SGWC-8	Total/NA	Water	PrecSep-21	
680-231043-6	SCH-SGWC-9	Total/NA	Water	PrecSep-21	
680-231043-7	SCH-SGWC-10	Total/NA	Water	PrecSep-21	
680-231043-8	SCH-SGWC-11	Total/NA	Water	PrecSep-21	
680-231043-9	SCH-SGWC-17	Total/NA	Water	PrecSep-21	
680-231043-10	SCH-SGWC-18	Total/NA	Water	PrecSep-21	
680-231043-11	SCH-SGWC-19	Total/NA	Water	PrecSep-21	
680-231043-12	SCH-SGWC-20	Total/NA	Water	PrecSep-21	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	PrecSep-21	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	PrecSep-21	
MB 160-603679/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603679/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
280-173234-C-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
280-173234-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 603680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231043-1	SCH-SGWA-2	Total/NA	Water	PrecSep_0	
680-231043-2	SCH-SGWA-4	Total/NA	Water	PrecSep_0	
680-231043-3	SCH-SGWC-6	Total/NA	Water	PrecSep_0	
680-231043-4	SCH-SGWC-7	Total/NA	Water	PrecSep_0	
680-231043-5	SCH-SGWC-8	Total/NA	Water	PrecSep_0	
680-231043-6	SCH-SGWC-9	Total/NA	Water	PrecSep_0	
680-231043-7	SCH-SGWC-10	Total/NA	Water	PrecSep_0	
680-231043-8	SCH-SGWC-11	Total/NA	Water	PrecSep_0	
680-231043-9	SCH-SGWC-17	Total/NA	Water	PrecSep_0	
680-231043-10	SCH-SGWC-18	Total/NA	Water	PrecSep_0	
680-231043-11	SCH-SGWC-19	Total/NA	Water	PrecSep_0	
680-231043-12	SCH-SGWC-20	Total/NA	Water	PrecSep_0	
680-231043-13	SCH-AP1-FD-1	Total/NA	Water	PrecSep_0	
680-231043-14	SCH-AP1-FD-2	Total/NA	Water	PrecSep_0	
MB 160-603680/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603680/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
280-173234-C-1-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
280-173234-C-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-231043-2

Client Sample ID: SCH-SGWA-2

Lab Sample ID: 680-231043-1

Date Collected: 02/22/23 09:45

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.26 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606324	04/06/23 07:43	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			996.26 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605413	03/29/23 12:13	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWA-4

Lab Sample ID: 680-231043-2

Date Collected: 02/22/23 11:30

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.28 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:46	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			999.28 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605413	03/29/23 12:13	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-6

Lab Sample ID: 680-231043-3

Date Collected: 02/22/23 13:20

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.10 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:46	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1003.10 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605413	03/29/23 12:14	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-7

Lab Sample ID: 680-231043-4

Date Collected: 02/22/23 15:30

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.81 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:46	FLC	EET SL
	Instrument ID: GFPCPURPLE									

Lab Chronicle

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

Job ID: 680-231043-2

Client Sample ID: SCH-SGWC-7

Lab Sample ID: 680-231043-4

Date Collected: 02/22/23 15:30

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			991.81 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605413	03/29/23 12:14	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-8

Lab Sample ID: 680-231043-5

Date Collected: 02/22/23 11:33

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.28 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:46	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1000.28 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605412	03/29/23 12:16	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-9

Lab Sample ID: 680-231043-6

Date Collected: 02/22/23 09:45

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.19 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:46	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			995.19 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605412	03/29/23 12:16	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-10

Lab Sample ID: 680-231043-7

Date Collected: 02/22/23 15:04

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.37 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:47	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			991.37 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605412	03/29/23 12:16	FLC	EET SL
	Instrument ID: GFPCPURPLE									

Lab Chronicle

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

Job ID: 680-231043-2

Client Sample ID: SCH-SGWC-10

Lab Sample ID: 680-231043-7

Date Collected: 02/22/23 15:04

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL

Client Sample ID: SCH-SGWC-11

Lab Sample ID: 680-231043-8

Date Collected: 02/22/23 14:30

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.34 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:47	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			997.34 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605414	03/29/23 11:51	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-17

Lab Sample ID: 680-231043-9

Date Collected: 02/22/23 14:21

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.75 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:47	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			999.75 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605414	03/29/23 11:51	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-18

Lab Sample ID: 680-231043-10

Date Collected: 02/22/23 11:48

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			990.48 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:47	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			990.48 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605414	03/29/23 11:52	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231043-2

Client Sample ID: SCH-SGWC-19

Lab Sample ID: 680-231043-11

Date Collected: 02/22/23 12:07

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.09 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 07:47	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			997.09 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605414	03/29/23 11:52	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-20

Lab Sample ID: 680-231043-12

Date Collected: 02/22/23 10:13

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.32 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 07:33	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1001.32 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605414	03/29/23 11:52	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FD-1

Lab Sample ID: 680-231043-13

Date Collected: 02/22/23 00:00

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1006.08 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 07:35	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1006.08 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605414	03/29/23 11:52	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FD-2

Lab Sample ID: 680-231043-14

Date Collected: 02/22/23 00:00

Matrix: Water

Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.25 mL	1.0 g	603679	03/15/23 09:21	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 07:38	FLC	EET SL
	Instrument ID: GFPCRED									

Lab Chronicle

Client: Southern Company
Job ID: 680-231043-2
Project/Site: CCR Plant Scherer - Ash Pond

Client Sample ID: SCH-AP1-FD-2
Lab Sample ID: 680-231043-14
Date Collected: 02/22/23 00:00
Matrix: Water
Date Received: 02/24/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1002.25 mL	1.0 g	603680	03/15/23 09:39	DJP	EET SL
Total/NA	Analysis	9320		1			605414	03/29/23 11:52	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606419	04/06/23 14:36	SCB	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231043-2
Project/Site: CCR Plant Scherer - Ash Pond

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

Method Summary

Client: Southern Company
Job ID: 680-231043-2
Project/Site: CCR Plant Scherer - Ash Pond

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

Protocol References:

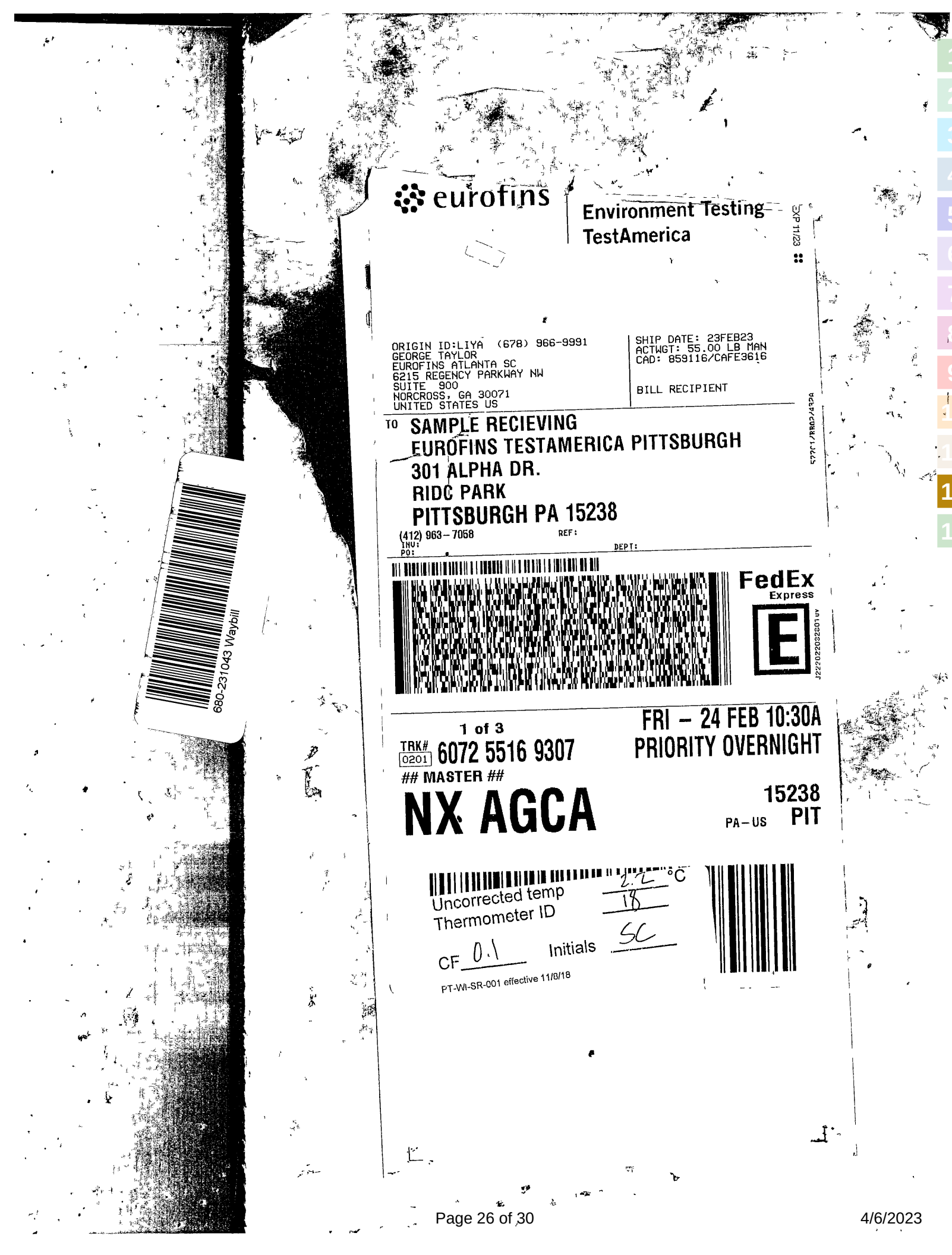
None = None

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

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

Laboratory References:

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



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EXP 11/23

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 23FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616

BILL RECIPIENT

TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058 REF:
INV: DEPT:
PO:

FedEx Express

1 of 3

TRK# 0201 6072 5516 9307

MASTER

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

NX AGCA

15238
PA-US PIT

680-231043 Waybill

Uncorrected temp 2.2 °C
Thermometer ID 18
CF 0.1 Initials SC

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

RT 198 FZ 197 10:30 A 9318 02.24

Part# 159469-434 MTW EXP 11/23

eurofins | Environment Testing TestAmerica

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 23FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616

BILL RECIPIENT

TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058 REF:
INV:
PO: DEPT:

Uncorrected temp 2.3 °C
Thermometer ID 18
CF 0.1 Initials SC
PT-WI-SR-001 effective 11/8/18

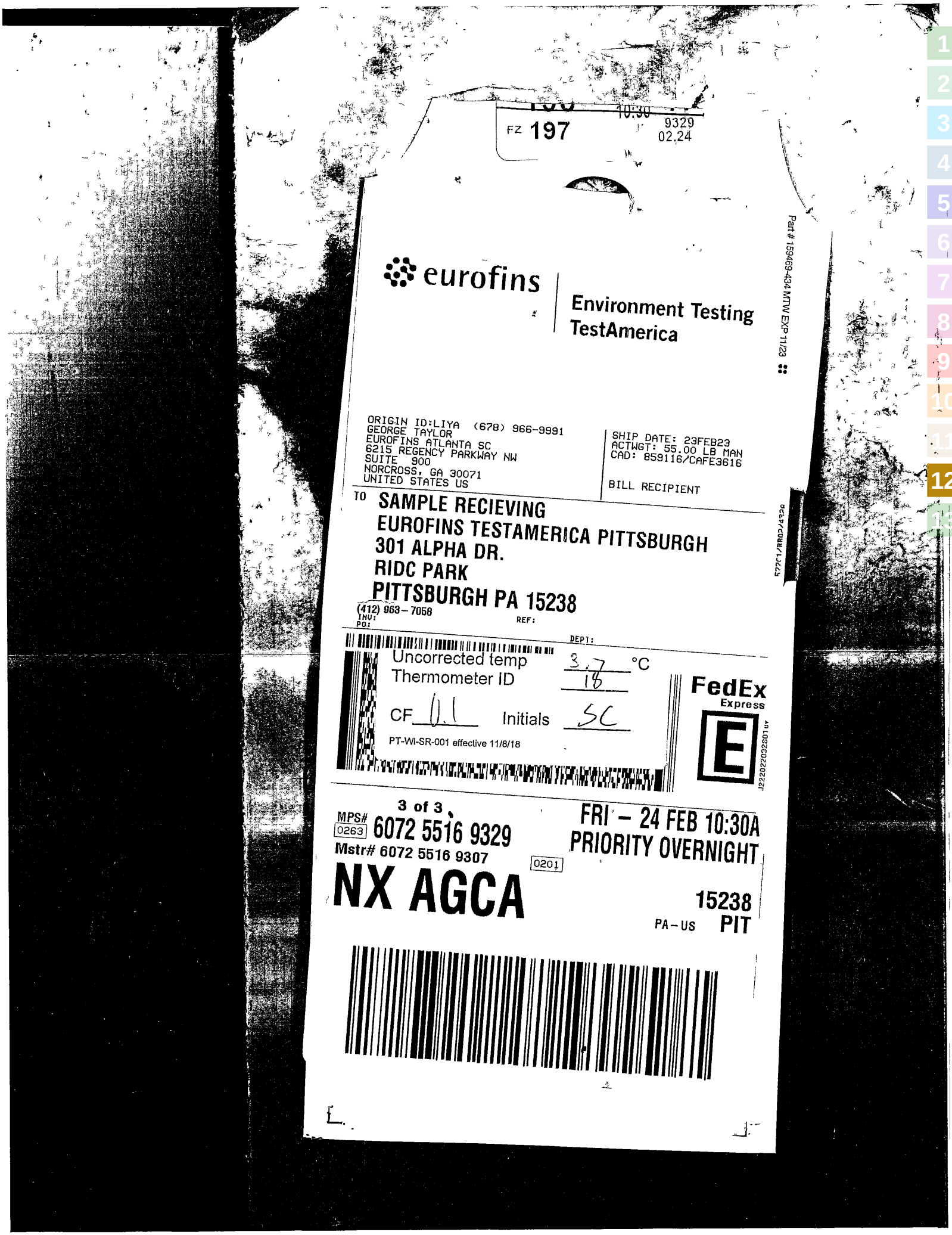
FedEx Express

2 of 3
MPS# 0263 6072 5516 9318
Mstr# 6072 5516 9307 0201

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

NX AGCA

15238
PA-US PIT


FZ 197
10:30
9329
02.24
eurofins
Environment Testing
TestAmerica
Part # 159469-434 MTW EXP 11/23
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 23FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7056
INV:
PO:
REF:
DEPT:
Uncorrected temp 3.7 °C
Thermometer ID 18
CF 0.1 Initials SC
PT-WI-SR-001 effective 11/8/18
FedEx Express
3 of 3
MPS# 0263 6072 5516 9329
Mstr# 6072 5516 9307
FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT
0201
NX AGCA
15238
PA - US
PIT

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412 963 7058 fax 412 963 2468

680-231043 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/23/23	COC No
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: Elaine COOK	1 of 1 COCs
Southern Company	**Analysis Turnaround Time**			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client
JAbraham@southernco com	☐ 2 weeks			Lab Sampling
Project Name: CCR - Plant Scherer Ash Pond	☐ 1 week			
Site Georgia	☐ 2 days			Job / SDG No
Project #: 68027798	☐ 1 day			

Radiem TO ST Louis

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals. Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes
SCH-SGWA-2	2/22/2023	9 45	G	WG	10	N	N	X	X	X	X	X	X	X	X	pH= 6 85, Fe2= 0 0, collected at 09.45, analyzed 09 50
SCH-SGWA-4	2/22/2023	11 30	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 36, Fe2= 0 0, collected at 11 30 analyzed 11 35
SCH-SGWC-6	2/22/2023	13 20	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 28, Fe2= 0 0, collected at 13 20, analyzed 13 25
SCH-SGWC-7	2/22/2023	15 30	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 51, Fe2= 0 0, collected at 15 30, analyzed at 15 35
SCH-SGWC-8	2/22/2023	11 33	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 51, Fe2= 0 0, collected at 11 33, analyzed at 11 38
SCH-SGWC-9	2/22/2023	9 45	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 14, Fe2= 0 0, collected at 09 45, analyzed at 09 50
SCH-SGWC-10	2/22/2023	15 04	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 23, Fe2= 0 0, collected at 15 04, analyzed at 15 09
SCH-SGWC-11	2/22/2023	14 30	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 10, Fe2= 0 5, collected at 14 30, analyzed at 14 35
SCH-SGWC-17	2/22/2023	14 21	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 23, Fe2= 0 0, collected at 14 21, analyzed at 14 26
SCH-SGWC-18	2/22/2023	11 48	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 00, Fe2= 0 0, collected at 11 48, analyzed at 11 53
SCH-SGWC-19	2/22/2023	12 07	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 53, Fe2= 0.0, collected at 12 07, analyzed at 12 12
SCH-SGWC-20	02/22/203	10 13	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 4 38, Fe2= 0 0, collected at 10 13, analyzed at 10 18
SCH-AP1-FD-1	2/22/2023	-	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 23, Fe2= 0.0, collected at 15 04, analyzed at 15 09
SCH-AP1-FD-2	2/22/2023	-	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 10, Fe2= 0 5, collected at 14 30, analyzed at 14 35
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	5	1	1	4	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

08:20

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd._____ Corr'd._____		Therm ID No _____
Relinquished by: DVANS FUSON	Company: WSP	Date/Time: 02/23/23	Received by: Elaine COOK	Company: Courier NOW	Date/Time: 2/23/23 @ 8:30
Relinquished by: Elaine COOK	Company: Courier NOW	Date/Time: 02/23/23	Received by:	Company:	Date/Time: 02/23/23 10:20
Relinquished by: 2/23/23	Company: 16:00	Date/Time:	Received in Laboratory by: Meg Lukes	Company: FEDEX	Date/Time: 2-24-23 0910

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/6/2023

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231043-2

Login Number: 231043
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/01/23 01:25 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/10/2023 4:35:13 PM

JOB DESCRIPTION

CCR Plant Scherer - Ash Pond

JOB NUMBER

680-231076-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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4/10/2023 4:35:13 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-231076-2
Project/Site: CCR Plant Scherer - Ash Pond

Qualifiers

Rad

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

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-231076-2
Project/Site: CCR Plant Scherer - Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231076-1	SCH-SGWC-12	Water	02/23/23 10:35	02/25/23 09:00
680-231076-2	SCH-SGWC-13	Water	02/23/23 13:10	02/25/23 09:00
680-231076-3	SCH-SGWC-14	Water	02/23/23 10:53	02/25/23 09:00
680-231076-4	SCH-SGWC-15	Water	02/23/23 13:08	02/25/23 09:00
680-231076-5	SCH-SGWC-16	Water	02/23/23 15:24	02/25/23 09:00
680-231076-6	SCH-SGWC-21	Water	02/23/23 09:00	02/25/23 09:00
680-231076-7	SCH-SGWC-22	Water	02/23/23 12:37	02/25/23 09:00
680-231076-8	SCH-SGWC-23	Water	02/23/23 10:47	02/25/23 09:00
680-231076-9	SCH-SGWC-24	Water	02/23/23 11:10	02/25/23 09:00
680-231076-10	SCH-SGWC-25	Water	02/23/23 09:35	02/25/23 09:00
680-231076-11	SCH-AP1-FB-2	Water	02/23/23 12:45	02/25/23 09:00
680-231076-12	SCH-AP1-EB-2	Water	02/23/23 16:25	02/25/23 09:00

Job ID: 680-231076-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231076-2

Receipt
The samples were received on 2/25/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.5°C, 2.0°C and 3.4°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 Prep Batch 160-603681Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-SGWC-12 (680-231076-1), SCH-SGWC-13 (680-231076-2), SCH-SGWC-14 (680-231076-3), SCH-SGWC-15 (680-231076-4), SCH-SGWC-16 (680-231076-5), SCH-SGWC-21 (680-231076-6), SCH-SGWC-22 (680-231076-7), SCH-SGWC-23 (680-231076-8), SCH-SGWC-24 (680-231076-9), SCH-SGWC-25 (680-231076-10), SCH-AP1-FB-2 (680-231076-11) and SCH-AP1-EB-2 (680-231076-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 603681Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-SGWC-12 (680-231076-1), SCH-SGWC-13 (680-231076-2), SCH-SGWC-14 (680-231076-3), SCH-SGWC-15 (680-231076-4), SCH-SGWC-16 (680-231076-5), SCH-SGWC-21 (680-231076-6), SCH-SGWC-22 (680-231076-7), SCH-SGWC-23 (680-231076-8), SCH-SGWC-24 (680-231076-9), SCH-SGWC-25 (680-231076-10), SCH-AP1-FB-2 (680-231076-11), SCH-AP1-EB-2 (680-231076-12), (LCS 160-603681/2-A), (LCSD 160-603681/3-A) and (MB 160-603681/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-603684Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-SGWC-12 (680-231076-1), SCH-SGWC-13 (680-231076-2), SCH-SGWC-14 (680-231076-3), SCH-SGWC-15 (680-231076-4), SCH-SGWC-16 (680-231076-5), SCH-SGWC-21 (680-231076-6), SCH-SGWC-22 (680-231076-7), SCH-SGWC-23 (680-231076-8), SCH-SGWC-24 (680-231076-9), SCH-SGWC-25 (680-231076-10), SCH-AP1-FB-2 (680-231076-11) and SCH-AP1-EB-2 (680-231076-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 603684The LCS recovered at (126%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCS 160-603684/2-A)

Method 9320_Ra228: Radium-228 batch 603684Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-SGWC-12 (680-231076-1), SCH-SGWC-13 (680-231076-2), SCH-SGWC-14 (680-231076-3), SCH-SGWC-15 (680-231076-4), SCH-SGWC-16 (680-231076-5), SCH-SGWC-21 (680-231076-6), SCH-SGWC-22 (680-231076-7), SCH-SGWC-23 (680-231076-8), SCH-SGWC-24 (680-231076-9), SCH-SGWC-25 (680-231076-10), SCH-AP1-FB-2 (680-231076-11), SCH-AP1-EB-2 (680-231076-12), (LCS 160-603684/2-A), (LCSD 160-603684/3-A) and (MB 160-603684/1-A)

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

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

Client Sample ID: SCH-SGWC-12

Lab Sample ID: 680-231076-1

Date Collected: 02/23/23 10:35

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0578	U	0.0724	0.0726	1.00	0.120	pCi/L	03/15/23 09:46	04/06/23 15:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*03/15/23 09:46*	*04/06/23 15:36*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.726**		0.439	0.444	1.00	0.650	pCi/L	03/15/23 10:00	03/30/23 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:17*	*1*
Y Carrier	*81.1*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:17*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.784**		0.445	0.450	5.00	0.650	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-13

Lab Sample ID: 680-231076-2

Date Collected: 02/23/23 13:10

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00776	U	0.0607	0.0607	1.00	0.120	pCi/L	03/15/23 09:46	04/06/23 15:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*03/15/23 09:46*	*04/06/23 15:36*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.498	U	0.435	0.438	1.00	0.693	pCi/L	03/15/23 10:00	03/30/23 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:17*	*1*
Y Carrier	*81.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:17*	*1*

Client Sample ID: SCH-SGWC-13

Lab Sample ID: 680-231076-2

Date Collected: 02/23/23 13:10

Matrix: Water

Date Received: 02/25/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.506	U	0.439	0.442	5.00	0.693	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-14

Lab Sample ID: 680-231076-3

Date Collected: 02/23/23 10:53

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0116	U	0.0689	0.0689	1.00	0.141	pCi/L	03/15/23 09:46	04/06/23 15:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*03/15/23 09:46*	*04/06/23 15:37*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0522	U	0.296	0.296	1.00	0.538	pCi/L	03/15/23 10:00	03/30/23 12:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*
Y Carrier	*85.6*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0406	U	0.304	0.304	5.00	0.538	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-15

Lab Sample ID: 680-231076-4

Date Collected: 02/23/23 13:08

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0177	U	0.0539	0.0539	1.00	0.120	pCi/L	03/15/23 09:46	04/06/23 15:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*30 - 110*	*03/15/23 09:46*	*04/06/23 15:37*	*1*

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

Job ID: 680-231076-2

Client Sample ID: SCH-SGWC-15

Lab Sample ID: 680-231076-4

Date Collected: 02/23/23 13:08
Matrix: Water
Date Received: 02/25/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0842	U	0.289	0.289	1.00	0.519	pCi/L	03/15/23 10:00	03/30/23 12:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*
Y Carrier	*82.2*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0665	U	0.294	0.294	5.00	0.519	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-16

Lab Sample ID: 680-231076-5

Date Collected: 02/23/23 15:24
Matrix: Water
Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0186	U	0.0568	0.0568	1.00	0.125	pCi/L	03/15/23 09:46	04/06/23 15:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*03/15/23 09:46*	*04/06/23 15:37*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.202	U	0.295	0.296	1.00	0.500	pCi/L	03/15/23 10:00	03/30/23 12:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*
Y Carrier	*84.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.183	U	0.300	0.301	5.00	0.500	pCi/L		04/07/23 17:18	1

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

Job ID: 680-231076-2

Client Sample ID: SCH-SGWC-21

Lab Sample ID: 680-231076-6

Date Collected: 02/23/23 09:00

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00602	U	0.0610	0.0610	1.00	0.120	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.520	U	0.362	0.365	1.00	0.545	pCi/L	03/15/23 10:00	03/30/23 12:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*
Y Carrier	*81.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:19*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.526	U	0.367	0.370	5.00	0.545	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-22

Lab Sample ID: 680-231076-7

Date Collected: 02/23/23 12:37

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0229	U	0.0613	0.0614	1.00	0.114	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.299	U	0.310	0.311	1.00	0.501	pCi/L	03/15/23 10:00	03/30/23 12:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*
Y Carrier	*84.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*

Client Sample ID: SCH-SGWC-22

Lab Sample ID: 680-231076-7

Date Collected: 02/23/23 12:37

Matrix: Water

Date Received: 02/25/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.322	U	0.316	0.317	5.00	0.501	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-23

Lab Sample ID: 680-231076-8

Date Collected: 02/23/23 10:47

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0924	U	0.0801	0.0805	1.00	0.121	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.322	0.323	1.00	0.545	pCi/L	03/15/23 10:00	03/30/23 12:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*
Y Carrier	*81.9*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.314	U	0.332	0.333	5.00	0.545	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-24

Lab Sample ID: 680-231076-9

Date Collected: 02/23/23 11:10

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0421	U	0.0717	0.0718	1.00	0.125	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

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

Job ID: 680-231076-2

Client Sample ID: SCH-SGWC-24

Lab Sample ID: 680-231076-9

Date Collected: 02/23/23 11:10

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.313	U	0.338	0.339	1.00	0.550	pCi/L	03/15/23 10:00	03/30/23 12:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*
Y Carrier	*84.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.355	U	0.346	0.347	5.00	0.550	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-SGWC-25

Lab Sample ID: 680-231076-10

Date Collected: 02/23/23 09:35

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0213	U	0.0650	0.0650	1.00	0.121	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.153	U	0.315	0.315	1.00	0.625	pCi/L	03/15/23 10:00	03/30/23 12:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*
Y Carrier	*81.1*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.132	U	0.322	0.322	5.00	0.625	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-AP1-FB-2

Lab Sample ID: 680-231076-11

Date Collected: 02/23/23 12:45

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0243	U	0.0544	0.0545	1.00	0.125	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0327	U	0.346	0.346	1.00	0.652	pCi/L	03/15/23 10:00	03/30/23 12:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*
Y Carrier	*77.0*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0569	U	0.350	0.350	5.00	0.652	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-AP1-EB-2

Lab Sample ID: 680-231076-12

Date Collected: 02/23/23 16:25

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0116	U	0.0738	0.0738	1.00	0.140	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0203	U	0.233	0.233	1.00	0.457	pCi/L	03/15/23 10:00	03/30/23 12:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*
Y Carrier	*80.0*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:20*	*1*

Client: Southern Company
Job ID: 680-231076-2
Project/Site: CCR Plant Scherer - Ash Pond

Client Sample ID: SCH-AP1-EB-2
Lab Sample ID: 680-231076-12
Date Collected: 02/23/23 16:25
Matrix: Water
Date Received: 02/25/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00880	U	0.244	0.244	5.00	0.457	pCi/L		04/07/23 17:18	1

Tracer/Carrier Summary

Client: Southern Company
Job ID: 680-231076-2
Project/Site: CCR Plant Scherer - Ash Pond

Method: 9315 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-231076-1	SCH-SGWC-12	88.1
680-231076-2	SCH-SGWC-13	91.0
680-231076-3	SCH-SGWC-14	92.4
680-231076-4	SCH-SGWC-15	94.1
680-231076-5	SCH-SGWC-16	91.2
680-231076-6	SCH-SGWC-21	91.2
680-231076-7	SCH-SGWC-22	95.5
680-231076-8	SCH-SGWC-23	86.4
680-231076-9	SCH-SGWC-24	87.9
680-231076-10	SCH-SGWC-25	87.9
680-231076-11	SCH-AP1-FB-2	85.0
680-231076-12	SCH-AP1-EB-2	92.1
LCS 160-603681/2-A	Lab Control Sample	91.0
LCSD 160-603681/3-A	Lab Control Sample Dup	89.8
MB 160-603681/1-A	Method Blank	92.9

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-231076-1	SCH-SGWC-12	88.1	81.1
680-231076-2	SCH-SGWC-13	91.0	81.5
680-231076-3	SCH-SGWC-14	92.4	85.6
680-231076-4	SCH-SGWC-15	94.1	82.2
680-231076-5	SCH-SGWC-16	91.2	84.5
680-231076-6	SCH-SGWC-21	91.2	81.5
680-231076-7	SCH-SGWC-22	95.5	84.5
680-231076-8	SCH-SGWC-23	86.4	81.9
680-231076-9	SCH-SGWC-24	87.9	84.5
680-231076-10	SCH-SGWC-25	87.9	81.1
680-231076-11	SCH-AP1-FB-2	85.0	77.0
680-231076-12	SCH-AP1-EB-2	92.1	80.0
LCS 160-603684/2-A	Lab Control Sample	91.0	81.5
LCSD 160-603684/3-A	Lab Control Sample Dup	89.8	83.4
MB 160-603684/1-A	Method Blank	92.9	84.5

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-603681/1-A
Matrix: Water
Analysis Batch: 606323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603681

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01435	U	0.0530	0.0530	1.00	0.116	pCi/L	03/15/23 09:46	04/06/23 15:36	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*03/15/23 09:46*	*04/06/23 15:36*	*1*

Lab Sample ID: LCS 160-603681/2-A
Matrix: Water
Analysis Batch: 606323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603681

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.20		1.17	1.00	0.116	pCi/L	99	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.0*		*30 - 110*

Lab Sample ID: LCSD 160-603681/3-A
Matrix: Water
Analysis Batch: 606323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603681

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.74		1.22	1.00	0.123	pCi/L	104	75 - 125	0.23	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*89.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-603684/1-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603684

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2542	U	0.268	0.269	1.00	0.432	pCi/L	03/15/23 10:00	03/30/23 12:16	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:16*	*1*
Y Carrier	*84.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:16*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-603684/2-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603684

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.08	10.21		1.38	1.00	0.553	pCi/L	126	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.0*		*30 - 110*
Y Carrier	*81.5*		*30 - 110*

Lab Sample ID: LCSD 160-603684/3-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603684

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.08	9.497		1.29	1.00	0.470	pCi/L	118	75 - 125	0.27	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*89.8*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

QC Association Summary

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

Job ID: 680-231076-2

Rad

Prep Batch: 603681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	PrecSep-21	
680-231076-2	SCH-SGWC-13	Total/NA	Water	PrecSep-21	
680-231076-3	SCH-SGWC-14	Total/NA	Water	PrecSep-21	
680-231076-4	SCH-SGWC-15	Total/NA	Water	PrecSep-21	
680-231076-5	SCH-SGWC-16	Total/NA	Water	PrecSep-21	
680-231076-6	SCH-SGWC-21	Total/NA	Water	PrecSep-21	
680-231076-7	SCH-SGWC-22	Total/NA	Water	PrecSep-21	
680-231076-8	SCH-SGWC-23	Total/NA	Water	PrecSep-21	
680-231076-9	SCH-SGWC-24	Total/NA	Water	PrecSep-21	
680-231076-10	SCH-SGWC-25	Total/NA	Water	PrecSep-21	
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	PrecSep-21	
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	PrecSep-21	
MB 160-603681/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603681/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-603681/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 603684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	PrecSep_0	
680-231076-2	SCH-SGWC-13	Total/NA	Water	PrecSep_0	
680-231076-3	SCH-SGWC-14	Total/NA	Water	PrecSep_0	
680-231076-4	SCH-SGWC-15	Total/NA	Water	PrecSep_0	
680-231076-5	SCH-SGWC-16	Total/NA	Water	PrecSep_0	
680-231076-6	SCH-SGWC-21	Total/NA	Water	PrecSep_0	
680-231076-7	SCH-SGWC-22	Total/NA	Water	PrecSep_0	
680-231076-8	SCH-SGWC-23	Total/NA	Water	PrecSep_0	
680-231076-9	SCH-SGWC-24	Total/NA	Water	PrecSep_0	
680-231076-10	SCH-SGWC-25	Total/NA	Water	PrecSep_0	
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	PrecSep_0	
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	PrecSep_0	
MB 160-603684/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603684/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603684/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-231076-2

Client Sample ID: SCH-SGWC-12

Lab Sample ID: 680-231076-1

Date Collected: 02/23/23 10:35

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.98 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 15:36	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1002.98 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605624	03/30/23 12:17	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-13

Lab Sample ID: 680-231076-2

Date Collected: 02/23/23 13:10

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.09 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 15:36	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			991.09 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605624	03/30/23 12:17	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-14

Lab Sample ID: 680-231076-3

Date Collected: 02/23/23 10:53

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.06 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 15:37	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1001.06 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:19	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-15

Lab Sample ID: 680-231076-4

Date Collected: 02/23/23 13:08

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			992.30 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 15:37	FLC	EET SL
	Instrument ID: GFPCPURPLE									

Lab Chronicle

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

Job ID: 680-231076-2

Client Sample ID: SCH-SGWC-15

Lab Sample ID: 680-231076-4

Date Collected: 02/23/23 13:08

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			992.30 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:19	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-16

Lab Sample ID: 680-231076-5

Date Collected: 02/23/23 15:24

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.59 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 15:37	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			999.59 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:19	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-21

Lab Sample ID: 680-231076-6

Date Collected: 02/23/23 09:00

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.20 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			996.20 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:19	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-22

Lab Sample ID: 680-231076-7

Date Collected: 02/23/23 12:37

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.33 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			996.33 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:20	FLC	EET SL
	Instrument ID: GFPCPURPLE									

Lab Chronicle

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

Job ID: 680-231076-2

Client Sample ID: SCH-SGWC-22

Lab Sample ID: 680-231076-7

Date Collected: 02/23/23 12:37

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL

Client Sample ID: SCH-SGWC-23

Lab Sample ID: 680-231076-8

Date Collected: 02/23/23 10:47

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.56 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			995.56 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:20	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-24

Lab Sample ID: 680-231076-9

Date Collected: 02/23/23 11:10

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.54 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			991.54 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:20	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-25

Lab Sample ID: 680-231076-10

Date Collected: 02/23/23 09:35

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.30 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			994.30 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:20	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231076-2

Client Sample ID: SCH-AP1-FB-2

Lab Sample ID: 680-231076-11

Date Collected: 02/23/23 12:45

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.15 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			998.15 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:20	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-EB-2

Lab Sample ID: 680-231076-12

Date Collected: 02/23/23 16:25

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.37 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			999.37 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:20	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231076-2
Project/Site: CCR Plant Scherer - Ash Pond

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

Method Summary

Client: Southern Company
Job ID: 680-231076-2
Project/Site: CCR Plant Scherer - Ash Pond

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

Protocol References:

None = None

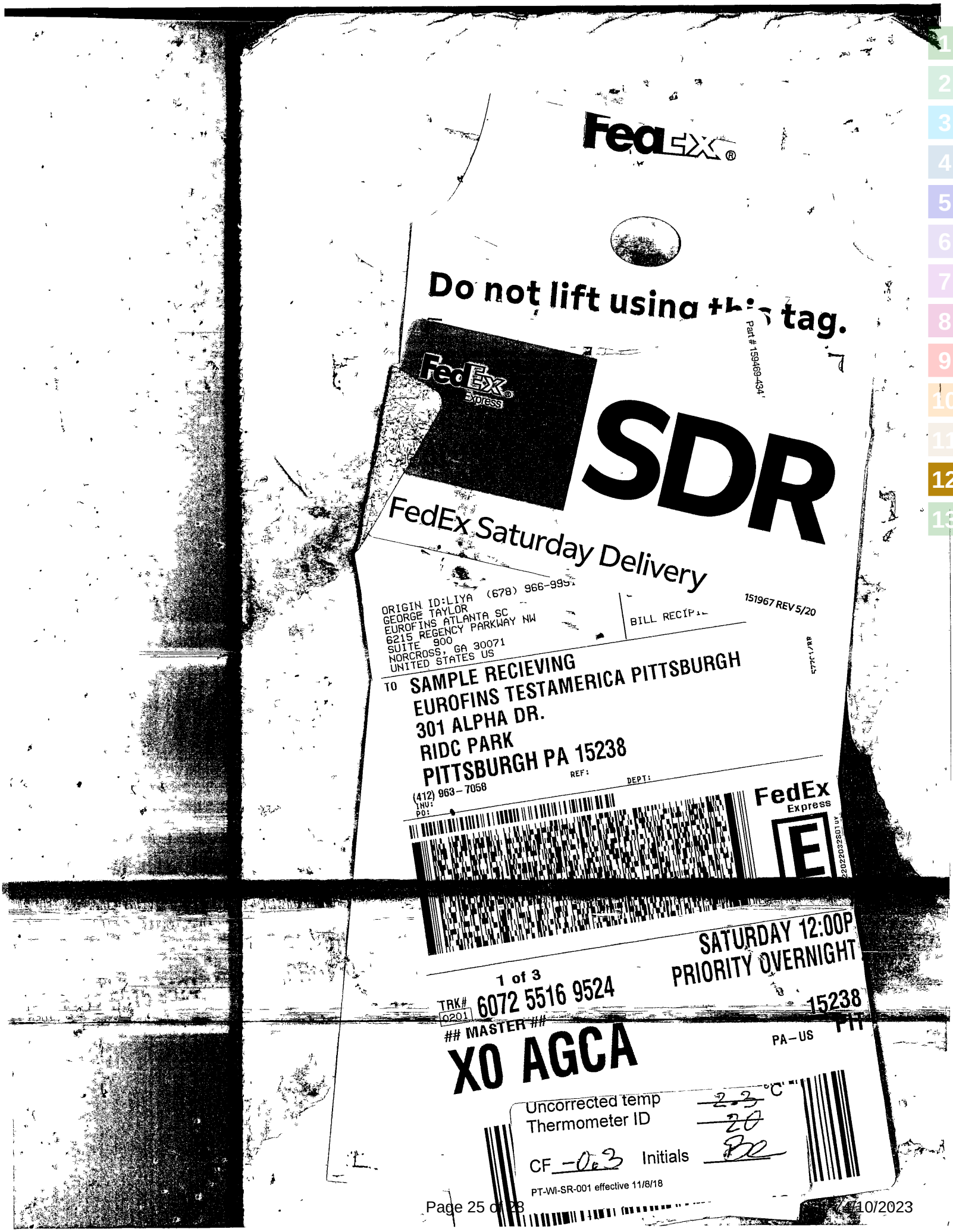
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

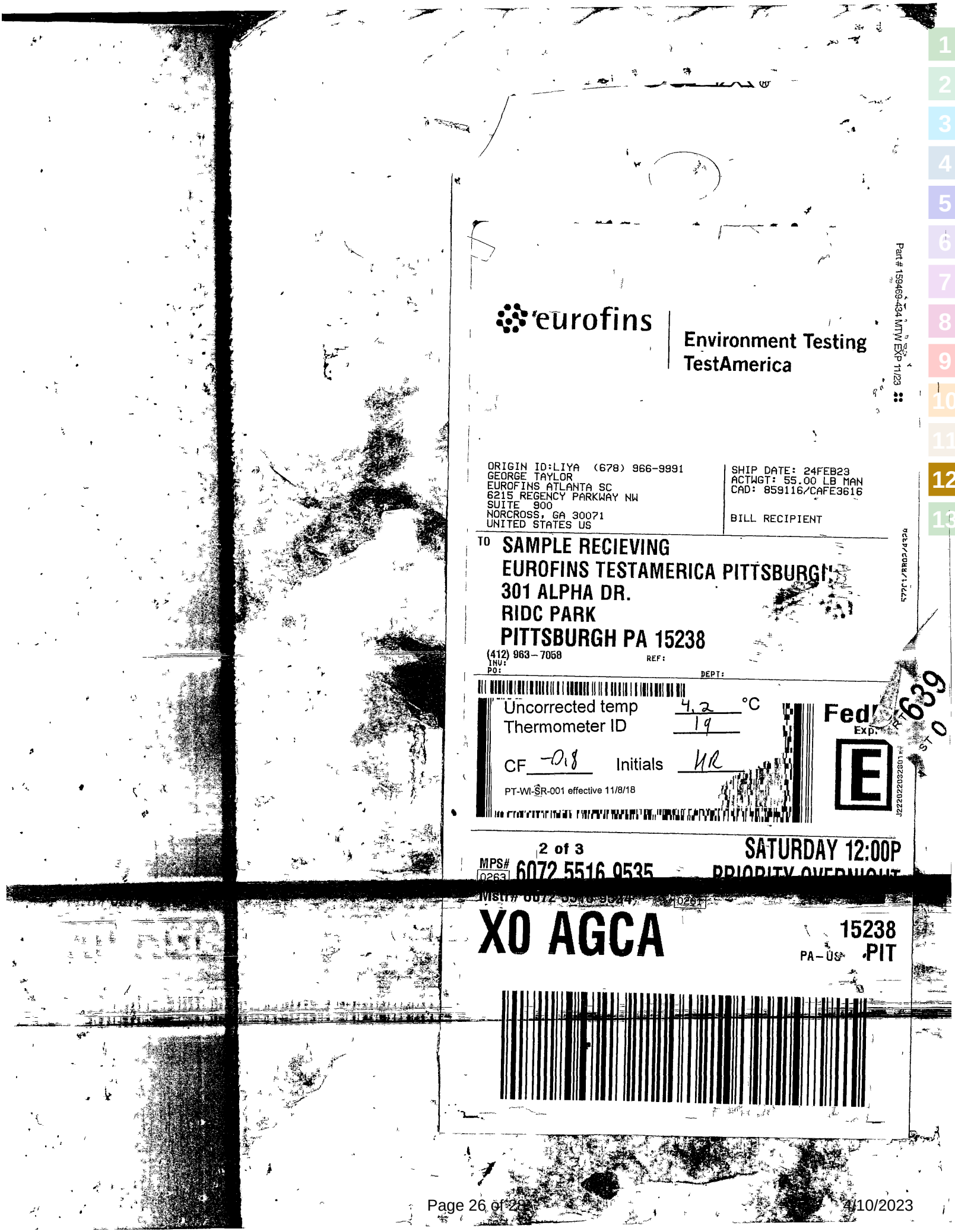
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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


Environment Testing
TestAmerica
Part # 158469-434 EXP 11/23
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
DEPT:
680-231076 Waybill
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
MPS# 0263 6072 5516 9546
Mstr# 6072 5516 9524
0201
XO AGCA
15238
PA-US PIT
Uncorrected temp
Thermometer ID
CF -0.3
Initials
PT-WI-SR-001 effective 11/8/18


FedEx
Do not lift using this tag.
Part # 159469-434
FedEx Express
SDR
FedEx Saturday Delivery
ORIGIN ID:LIYA (678) 966-9997
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
BILL RECIPIENT
151967 REV 5/20
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
DEPT:
INV:
PO:
FedEx Express
1 of 3
TRK# 0201 6072 5516 9524
SATURDAY 12:00P
PRIORITY OVERNIGHT
MASTER
XO AGCA
15238
PA-US
PIT
Uncorrected temp 2.3 °C
Thermometer ID 20
CF -0.3 Initials BC
PT-WI-SR-001 effective 11/8/18


eurofins
Environment Testing
TestAmerica
Part # 159469-434 MTW EXP 11/23
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
DEPT:
Uncorrected temp 4.2 °C
Thermometer ID 19
CF -0.1 Initials HR
PT-WI-SR-001 effective 11/8/18
2 of 3
MPS# 6072 5516 0535
SATURDAY 12:00P
XO AGCA
15238
PA-US PIT

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

680-231076 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/24/23	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: WSP	1 of 1 COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client:
JAbraham@southernco com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Ash Pond	☐ 1 week			
Site: Georgia	☐ 2 days			Job / SDG No.:
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes:
SCH-SGWC-12	2/23/2023	10.35	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 04, Fe2= 1 5, collected at 10 35, analyzed 10:40
SCH-SGWC-13	2/23/2023	13:10	G	WG	10	N	N	X	X	X	X	X	X	X	X	pH= 5.94, Fe2= 0 0, collected at 13:10 analyzed 13:15
SCH-SGWC-14	2/23/2023	10:53	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.72, Fe2= 0 0, collected at 10:53, analyzed 10.58
SCH-SGWC-15	2/23/2023	13:08	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 4.59, Fe2= 0 0, collected at 13.08, analyzed at 13.13
SCH-SGWC-16	2/23/2023	15.24	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.13, Fe2= 0 0, collected at 15 24, analyzed at 15 29
SCH-SGWC-21	2/23/2023	9 00	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 19, Fe2= 0 0, collected at 09.00, analyzed at 09 05
SCH-SGWC-22	2/23/2023	12 37	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 72, Fe2= 0 0, collected at 12:37, analyzed at 12 42
SCH-SGWC-23	2/23/2023	10.47	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 00, Fe2= 0 0, collected at 10 47, analyzed at 10 52
SCH-SGWC-24	2/23/2023	11 10	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.33, Fe2= 0 0, collected at 11 10, analyzed at 11 15
SCH-SGWC-25	2/23/2023	9 35	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 04, Fe2= 0 0, collected at 09.35, analyzed at 09 40
SCH-AP1-FB-2	2/23/2023	12 45	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-AP1-EB-2	2/23/2023	16 25	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
								4	4	4	4	5	4	4		

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by: Tiffany Messier	WSP/USA	2/24/23 12:1	Received by:		
Relinquished by:	Company:	2/24/23	Received by:	Company: EPLING	Date/Time: 2-25-23 0900
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/10/2023

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231076-2

Login Number: 231076
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/01/23 01:48 PM

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

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/18/2023 4:53:59 PM

JOB DESCRIPTION

CCR - Plant Scherer - AP1 PZs

JOB NUMBER

680-231078-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231078-1	SCH-PZ-13S	Water	02/23/23 12:17	02/25/23 09:00
680-231078-2	SCH-PZ-14S	Water	02/23/23 09:47	02/25/23 09:00
680-231078-3	SCH-PZ-17I	Water	02/23/23 15:00	02/25/23 09:00
680-231078-4	SCH-PZ-42I	Water	02/23/23 15:50	02/25/23 09:00
680-231078-5	SCH-PZ-41S	Water	02/23/23 13:15	02/25/23 09:00
680-231078-6	SCH-PZ-40I	Water	02/24/23 08:55	02/25/23 09:00
680-231078-7	SCH-PZ-39S	Water	02/24/23 08:39	02/25/23 09:00
680-231078-8	SCH-PZ-69I	Water	02/24/23 10:27	02/25/23 09:00
680-231078-9	SCH-AP1-FD-3	Water	02/24/23 00:00	02/25/23 09:00
680-231078-10	SCH-AP1-FB-3	Water	02/23/23 13:45	02/25/23 09:00

Job ID: 680-231078-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231078-1

Receipt
The samples were received on 2/25/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8°C and 2.2°C

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-427773 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-427908 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Metals
Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: SCH-PZ-42I (680-231078-4), SCH-PZ-41S (680-231078-5) and SCH-PZ-40I (680-231078-6). Elevated reporting limits (RLs) are provided.

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

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

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-13S

Date Collected: 02/23/23 12:17
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-1

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			03/01/23 19:56	1
Fluoride	0.042	J F1	0.10	0.026	mg/L			03/01/23 19:56	1
Sulfate	1.6	F1	1.0	0.76	mg/L			03/01/23 19:56	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:30	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:30	1
Barium	0.049		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:30	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:30	1
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:30	1
Calcium	4.2		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:30	1
Chromium	0.0034		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:30	1
Cobalt	0.0057		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:30	1
Iron	0.097		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:30	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:30	1
Lithium	0.0033	J	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:30	1
Magnesium	1.6		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:30	1
Manganese	0.061		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:30	1
Potassium	0.40	J	0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:30	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:30	1
Sodium	5.1		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:30	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:30	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 14:39	1
Total Dissolved Solids (SM 2540C)	51		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	0.097		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	17		5.0	5.0	mg/L			02/27/23 20:07	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	17		5.0	5.0	mg/L			02/27/23 20:07	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 20:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.14				SU			02/23/23 12:17	1
Ferrous Iron	0.0				mg/L			02/23/23 12:17	1

Client Sample ID: SCH-PZ-14S

Date Collected: 02/23/23 09:47
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-2

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.8**		1.0	0.71	mg/L			03/01/23 19:38	1
Fluoride	**0.043**	**J**	0.10	0.026	mg/L			03/01/23 19:38	1
Sulfate	**1.1**		1.0	0.76	mg/L			03/01/23 19:38	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:34	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:34	1
Barium	**0.036**		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:34	1
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 13:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:34	1
Calcium	**4.6**		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:34	1
Chromium	**0.0022**		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:34	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:34	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:34	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:34	1
Lithium	**0.0022**	**J**	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:34	1
Magnesium	**2.9**		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:34	1
Manganese	**0.0096**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:34	1
Potassium	**0.76**		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:34	1
Sodium	**2.1**		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:34	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 14:45	1
Total Dissolved Solids (SM 2540C)	**59**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**23**		5.0	5.0	mg/L			02/27/23 20:12	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**23**		5.0	5.0	mg/L			02/27/23 20:12	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 20:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.40**				SU			02/23/23 09:47	1
Ferrous Iron	**0.0**				mg/L			02/23/23 09:47	1

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-17I

Date Collected: 02/23/23 15:00
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-3

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.4**		1.0	0.71	mg/L			03/01/23 21:29	1
Fluoride	**0.049**	**J**	0.10	0.026	mg/L			03/01/23 21:29	1
Sulfate	**120**		1.0	0.76	mg/L			03/01/23 21:29	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:38	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:38	1
Barium	**0.062**		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:38	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:38	1
Boron	**0.20**		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 13:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:38	1
Calcium	**38**		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:38	1
Chromium	**0.0042**		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:38	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:38	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:38	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:38	1
Lithium	**0.0016**	**J**	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:38	1
Magnesium	**16**		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:38	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:38	1
Potassium	**2.3**		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:38	1
Sodium	**12**		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:38	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 14:48	1
Total Dissolved Solids (SM 2540C)	**260**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**66**		5.0	5.0	mg/L			02/27/23 20:17	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**66**		5.0	5.0	mg/L			02/27/23 20:17	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 20:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.73**				SU			02/23/23 15:00	1
Ferrous Iron	**0.0**				mg/L			02/23/23 15:00	1

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-42I

Date Collected: 02/23/23 15:50
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-4

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		1.0	0.71	mg/L			03/02/23 09:29	1
Fluoride	**0.079**	**J**	0.10	0.026	mg/L			03/02/23 09:29	1
Sulfate	**260**		1.0	0.76	mg/L			03/02/23 09:29	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:41	1
Barium	**0.052**		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:41	1
Boron	**3.0**		0.16	0.12	mg/L		03/08/23 09:05	04/07/23 13:10	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:41	1
Calcium	**70**		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:41	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:41	1
Iron	**0.11**		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:41	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:41	1
Lithium	**0.0064**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:41	1
Magnesium	**27**		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:41	1
Manganese	**0.16**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:41	1
Molybdenum	**0.0066**	**J**	0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:41	1
Potassium	**4.3**		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:41	1
Sodium	**28**		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:41	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 14:50	1
Total Dissolved Solids (SM 2540C)	**490**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	**0.11**		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**89**		5.0	5.0	mg/L			02/27/23 20:21	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**89**		5.0	5.0	mg/L			02/27/23 20:21	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 20:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.36**				SU			02/23/23 15:50	1
Ferrous Iron	**0.0**				mg/L			02/23/23 15:50	1

Client Sample ID: SCH-PZ-41S

Date Collected: 02/23/23 13:15
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-5

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		1.0	0.71	mg/L			03/02/23 09:48	1
Fluoride	0.060	J	0.10	0.026	mg/L			03/02/23 09:48	1
Sulfate	660		1.0	0.76	mg/L			03/02/23 09:48	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:45	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:45	1
Barium	0.026		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:45	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:45	1
Boron	3.8		0.16	0.12	mg/L		03/08/23 09:05	04/07/23 13:29	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:45	1
Calcium	140		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:45	1
Chromium	0.0059		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:45	1
Cobalt	0.00040	J	0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:45	1
Iron	0.11		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:45	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:45	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:45	1
Magnesium	52		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:45	1
Manganese	0.0095		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:45	1
Potassium	4.3		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:45	1
Selenium	0.0071		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:45	1
Sodium	56		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:45	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 14:52	1
Total Dissolved Solids (SM 2540C)	950		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	0.11		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	16		5.0	5.0	mg/L			02/27/23 20:27	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	16		5.0	5.0	mg/L			02/27/23 20:27	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 20:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.91				SU			02/23/23 13:15	1
Ferrous Iron	0.0				mg/L			02/23/23 13:15	1

Client Sample ID: SCH-PZ-40I

Date Collected: 02/24/23 08:55
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-6

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.9**		1.0	0.71	mg/L			03/02/23 17:21	1
Fluoride	**0.047**	**J**	0.10	0.026	mg/L			03/02/23 17:21	1
Sulfate	**700**		1.0	0.76	mg/L			03/02/23 17:21	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 17:07	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 17:07	1
Barium	**0.039**		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 17:07	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 17:07	1
Boron	**4.2**		0.16	0.12	mg/L		03/08/23 09:05	04/07/23 13:40	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 17:07	1
Calcium	**150**		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 17:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 17:07	1
Cobalt	**0.0014**	**J**	0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 17:07	1
Iron	**1.2**		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 17:07	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 17:07	1
Lithium	**0.011**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:07	1
Magnesium	**62**		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 17:07	1
Manganese	**0.28**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 17:07	1
Potassium	**8.5**		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 17:07	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 17:07	1
Sodium	**58**		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 17:07	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 17:07	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 14:59	1
Total Dissolved Solids (SM 2540C)	**1100**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**27**		5.0	5.0	mg/L			02/27/23 20:32	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**27**		5.0	5.0	mg/L			02/27/23 20:32	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 20:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.16**				SU			02/24/23 08:55	1
Ferrous Iron	**1.5**				mg/L			02/24/23 08:55	1

Client Sample ID: SCH-PZ-39S

Date Collected: 02/24/23 08:39
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-7

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.9		1.0	0.71	mg/L			03/02/23 17:40	1
Fluoride	0.062	J	0.10	0.026	mg/L			03/02/23 17:40	1
Sulfate	45		1.0	0.76	mg/L			03/02/23 17:40	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 17:22	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 17:22	1
Barium	0.045		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 17:22	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 17:22	1
Boron	0.51		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 13:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 17:22	1
Calcium	26		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 17:22	1
Chromium	0.030		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 17:22	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 17:22	1
Iron	0.052		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 17:22	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 17:22	1
Lithium	0.0071		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:22	1
Magnesium	11		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 17:22	1
Manganese	0.13		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:22	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 17:22	1
Potassium	1.9		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 17:22	1
Selenium	0.0019	J	0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 17:22	1
Sodium	7.6		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 17:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 17:22	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 15:01	1
Total Dissolved Solids (SM 2540C)	160		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	0.052		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	79		5.0	5.0	mg/L			02/27/23 20:36	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	79		5.0	5.0	mg/L			02/27/23 20:36	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 20:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.67				SU			02/24/23 08:39	1
Ferrous Iron	0.0				mg/L			02/24/23 08:39	1

Client Sample ID: SCH-PZ-69I

Date Collected: 02/24/23 10:27
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-8

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.2**		1.0	0.71	mg/L			03/01/23 23:38	1
Fluoride	**0.083**	**J**	0.10	0.026	mg/L			03/01/23 23:38	1
Sulfate	**100**		1.0	0.76	mg/L			03/01/23 23:38	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 17:26	1
Arsenic	**0.00070**	**J**	0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 17:26	1
Barium	**0.16**		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 17:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 17:26	1
Boron	**0.76**		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 13:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 17:26	1
Calcium	**48**		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 17:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 17:26	1
Cobalt	**0.0021**	**J**	0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 17:26	1
Iron	**1.8**		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 17:26	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 17:26	1
Lithium	**0.0026**	**J**	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:26	1
Magnesium	**12**		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 17:26	1
Manganese	**1.9**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:26	1
Molybdenum	**0.00069**	**J**	0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 17:26	1
Potassium	**6.0**		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 17:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 17:26	1
Sodium	**17**		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 17:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 17:26	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 15:03	1
Total Dissolved Solids (SM 2540C)	**290**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	**0.30**		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**110**		5.0	5.0	mg/L			03/01/23 14:09	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**110**		5.0	5.0	mg/L			03/01/23 14:09	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 14:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.54**				SU			02/24/23 10:27	1
Ferrous Iron	**1.5**				mg/L			02/24/23 10:27	1

Client Sample ID: SCH-AP1-FD-3

Date Collected: 02/24/23 00:00
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-9

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.8**		1.0	0.71	mg/L			03/01/23 23:56	1
Fluoride	**0.057**	**J**	0.10	0.026	mg/L			03/01/23 23:56	1
Sulfate	**45**		1.0	0.76	mg/L			03/01/23 23:56	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 17:30	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 17:30	1
Barium	**0.046**		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 17:30	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 17:30	1
Boron	**0.21**		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 13:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 17:30	1
Calcium	**26**		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 17:30	1
Chromium	**0.031**		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 17:30	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 17:30	1
Iron	**0.050**		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 17:30	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 17:30	1
Lithium	**0.0070**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:30	1
Magnesium	**11**		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 17:30	1
Manganese	**0.13**		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:30	1
Molybdenum	**0.0011**	**J**	0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 17:30	1
Potassium	**1.8**		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 17:30	1
Selenium	**0.0016**	**J**	0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 17:30	1
Sodium	**7.6**		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 17:30	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 17:30	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 15:06	1
Total Dissolved Solids (SM 2540C)	**160**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	**0.050**		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**72**		5.0	5.0	mg/L			03/01/23 14:14	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**72**		5.0	5.0	mg/L			03/01/23 14:14	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 14:14	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.67**				SU			02/24/23 00:00	1
Ferrous Iron	**0.0**				mg/L			02/24/23 00:00	1

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-AP1-FB-3

Date Collected: 02/23/23 13:45
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-10

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/02/23 02:24	1
Fluoride	**0.029**	**J**	0.10	0.026	mg/L			03/02/23 02:24	1
Sulfate	**1.2**		1.0	0.76	mg/L			03/02/23 02:24	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 17:33	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 17:33	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 17:33	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 17:33	1
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/14/23 16:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 17:33	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 17:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 17:33	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 17:33	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 17:33	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 17:33	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:33	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 17:33	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 17:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 17:33	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 17:33	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 17:33	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 17:33	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 17:33	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 15:08	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/02/23 17:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 14:51	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 14:51	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 14:51	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: LB 180-427646/1-A
Matrix: Water
Analysis Batch: 427773

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

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/01/23 20:52	1
Fluoride	<0.026		0.10	0.026	mg/L			03/01/23 20:52	1
Sulfate	<0.76		1.0	0.76	mg/L			03/01/23 20:52	1

Lab Sample ID: MB 180-427773/36
Matrix: Water
Analysis Batch: 427773

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/02/23 00:15	1
Fluoride	<0.026		0.10	0.026	mg/L			03/02/23 00:15	1
Sulfate	<0.76		1.0	0.76	mg/L			03/02/23 00:15	1

Lab Sample ID: MB 180-427773/6
Matrix: Water
Analysis Batch: 427773

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/01/23 15:00	1
Fluoride	<0.026		0.10	0.026	mg/L			03/01/23 15:00	1
Sulfate	<0.76		1.0	0.76	mg/L			03/01/23 15:00	1

Lab Sample ID: LCS 180-427773/37
Matrix: Water
Analysis Batch: 427773

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.6		mg/L		99	90 - 110
Fluoride	2.50	2.72		mg/L		109	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: LCS 180-427773/7
Matrix: Water
Analysis Batch: 427773

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.8		mg/L		98	90 - 110
Fluoride	2.50	2.60		mg/L		104	90 - 110
Sulfate	50.0	51.2		mg/L		102	90 - 110

Lab Sample ID: 680-231078-1 MS
Matrix: Water
Analysis Batch: 427773

Client Sample ID: SCH-PZ-13S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10		50.0	65.2		mg/L		110	90 - 110
Fluoride	0.042	J F1	2.50	3.14	F1	mg/L		124	90 - 110
Sulfate	1.6	F1	50.0	60.2	F1	mg/L		117	90 - 110

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-231078-1 MSD
Matrix: Water
Analysis Batch: 427773

Client Sample ID: SCH-PZ-13S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10		50.0	64.8		mg/L		109	90 - 110	1	20
Fluoride	0.042	J F1	2.50	3.12	F1	mg/L		123	90 - 110	1	20
Sulfate	1.6	F1	50.0	59.2	F1	mg/L		115	90 - 110	2	20

Lab Sample ID: MB 180-427908/6
Matrix: Water
Analysis Batch: 427908

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/02/23 13:39	1
Fluoride	<0.026		0.10	0.026	mg/L			03/02/23 13:39	1
Sulfate	<0.76		1.0	0.76	mg/L			03/02/23 13:39	1

Lab Sample ID: LCS 180-427908/7
Matrix: Water
Analysis Batch: 427908

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Fluoride	2.50	2.72		mg/L		109	90 - 110
Sulfate	50.0	50.8		mg/L		102	90 - 110

Lab Sample ID: 180-152836-D-1 MS
Matrix: Water
Analysis Batch: 427908

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	46		50.0	92.4		mg/L		93	90 - 110
Fluoride	0.059	J	2.50	2.74		mg/L		107	90 - 110
Sulfate	500		50.0	534	4	mg/L		60	90 - 110

Lab Sample ID: 180-152836-D-1 MSD
Matrix: Water
Analysis Batch: 427908

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	46		50.0	92.5		mg/L		93	90 - 110	0	20
Fluoride	0.059	J	2.50	2.76		mg/L		108	90 - 110	1	20
Sulfate	500		50.0	534	4	mg/L		60	90 - 110	0	20

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

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:05	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:05	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:05	1

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

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:05	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:05	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:05	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:05	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:05	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:05	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:05	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:05	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:05	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:05	1

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:03	1

Lab Sample ID: LCS 180-428412/2-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.275		mg/L		110	80 - 120
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.488		mg/L		98	80 - 120
Cadmium	0.500	0.516		mg/L		103	80 - 120
Calcium	25.0	28.0		mg/L		112	80 - 120
Chromium	0.500	0.523		mg/L		105	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Iron	5.00	5.22		mg/L		104	80 - 120
Lead	0.500	0.509		mg/L		102	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Magnesium	25.0	25.7		mg/L		103	80 - 120
Manganese	0.500	0.497		mg/L		99	80 - 120
Molybdenum	0.500	0.526		mg/L		105	80 - 120
Potassium	25.0	26.0		mg/L		104	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Sodium	25.0	26.2		mg/L		105	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

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

Lab Sample ID: LCS 180-428412/2-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.25	1.27		mg/L		102	80 - 120		

Lab Sample ID: 680-231076-E-7-B MS
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	<0.00097		0.250	0.269		mg/L		108	75 - 125		
Arsenic	<0.00028		1.00	0.963		mg/L		96	75 - 125		
Barium	0.082		1.00	1.07		mg/L		99	75 - 125		
Beryllium	<0.00027		0.500	0.465		mg/L		93	75 - 125		
Cadmium	<0.00022		0.500	0.499		mg/L		100	75 - 125		
Calcium	34		25.0	60.1		mg/L		103	75 - 125		
Chromium	<0.0015		0.500	0.499		mg/L		100	75 - 125		
Cobalt	0.00069	J	0.500	0.476		mg/L		95	75 - 125		
Iron	0.22		5.00	5.30		mg/L		102	75 - 125		
Lead	<0.00038		0.500	0.493		mg/L		99	75 - 125		
Lithium	0.0019	J	0.500	0.469		mg/L		93	75 - 125		
Magnesium	16		25.0	39.8		mg/L		97	75 - 125		
Manganese	0.15		0.500	0.614		mg/L		94	75 - 125		
Molybdenum	<0.00061		0.500	0.506		mg/L		101	75 - 125		
Potassium	2.9		25.0	27.6		mg/L		99	75 - 125		
Selenium	<0.00074		1.00	0.996		mg/L		100	75 - 125		
Sodium	20		25.0	44.2		mg/L		95	75 - 125		
Thallium	<0.00047		1.00	1.03		mg/L		103	75 - 125		

Lab Sample ID: 680-231076-E-7-C MSD
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.266		mg/L		107	75 - 125	1	20
Arsenic	<0.00028		1.00	0.962		mg/L		96	75 - 125	0	20
Barium	0.082		1.00	1.05		mg/L		97	75 - 125	2	20
Beryllium	<0.00027		0.500	0.463		mg/L		93	75 - 125	0	20
Cadmium	<0.00022		0.500	0.494		mg/L		99	75 - 125	1	20
Calcium	34		25.0	57.7		mg/L		93	75 - 125	4	20
Chromium	<0.0015		0.500	0.498		mg/L		100	75 - 125	0	20
Cobalt	0.00069	J	0.500	0.474		mg/L		95	75 - 125	0	20
Iron	0.22		5.00	5.17		mg/L		99	75 - 125	3	20
Lead	<0.00038		0.500	0.488		mg/L		98	75 - 125	1	20
Lithium	0.0019	J	0.500	0.467		mg/L		93	75 - 125	0	20
Magnesium	16		25.0	38.8		mg/L		93	75 - 125	3	20
Manganese	0.15		0.500	0.603		mg/L		91	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.508		mg/L		102	75 - 125	0	20
Potassium	2.9		25.0	27.2		mg/L		97	75 - 125	1	20
Selenium	<0.00074		1.00	0.989		mg/L		99	75 - 125	1	20
Sodium	20		25.0	42.6		mg/L		89	75 - 125	4	20
Thallium	<0.00047		1.00	1.01		mg/L		101	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-428559/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:23	1

Lab Sample ID: LCS 180-428559/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00226		mg/L		90	80 - 120

Lab Sample ID: 680-231076-E-1-C MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 428559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013	F1	0.00100	0.000648	F1	mg/L		65	75 - 125

Lab Sample ID: 680-231076-E-1-D MSD
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 428559

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013	F1	0.00100	0.000613	F1	mg/L		61	75 - 125	6	20

Lab Sample ID: MB 180-428561/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 13:56	1

Lab Sample ID: LCS 180-428561/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00239		mg/L		95	80 - 120

Lab Sample ID: 680-231078-9 MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: SCH-AP1-FD-3
Prep Type: Total/NA
Prep Batch: 428561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000927		mg/L		93	75 - 125

Lab Sample ID: 680-231078-9 MSD
Matrix: Water
Analysis Batch: 428715

Client Sample ID: SCH-AP1-FD-3
Prep Type: Total/NA
Prep Batch: 428561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000953		mg/L		95	75 - 125	3	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-427758/2-A
Matrix: Water
Analysis Batch: 427883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/01/23 10:59	03/01/23 14:36	1

Lab Sample ID: LCS 180-427758/1-A
Matrix: Water
Analysis Batch: 427883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	17.7	15.3		mg/L		86	85 - 115

Lab Sample ID: 680-231078-1 MS
Matrix: Water
Analysis Batch: 427883

Client Sample ID: SCH-PZ-13S
Prep Type: Total/NA
Prep Batch: 427758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<2.1		17.7	14.7		mg/L		83	75 - 125

Lab Sample ID: 680-231078-1 MSD
Matrix: Water
Analysis Batch: 427883

Client Sample ID: SCH-PZ-13S
Prep Type: Total/NA
Prep Batch: 427758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<2.1		17.7	14.7		mg/L		83	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-427967/1
Matrix: Water
Analysis Batch: 427967

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/02/23 17:58	1

Lab Sample ID: LCS 180-427967/2
Matrix: Water
Analysis Batch: 427967

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	656		mg/L		99	85 - 115

Lab Sample ID: 680-231078-4 DU
Matrix: Water
Analysis Batch: 427967

Client Sample ID: SCH-PZ-42I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	490		481		mg/L		0.8	10

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 680-231081-A-1 DU
Matrix: Water
Analysis Batch: 427967

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	330			331		mg/L				1	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-427598/77
Matrix: Water
Analysis Batch: 427598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/27/23 19:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 19:03	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 19:03	1

Lab Sample ID: LCS 180-427598/76
Matrix: Water
Analysis Batch: 427598

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			255	261		mg/L		103	90 - 110		

Lab Sample ID: LLCS 180-427598/75
Matrix: Water
Analysis Batch: 427598

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			15.3	15.7		mg/L		103	75 - 125		

Lab Sample ID: 180-152645-B-9 DU
Matrix: Water
Analysis Batch: 427598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	95			96.9		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	95			96.9		mg/L				2	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

Lab Sample ID: MB 180-427796/29
Matrix: Water
Analysis Batch: 427796

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/01/23 14:38	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 14:38	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 14:38	1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-427796/5
Matrix: Water
Analysis Batch: 427796

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/01/23 12:45	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 12:45	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 12:45	1

Lab Sample ID: LCS 180-427796/28
Matrix: Water
Analysis Batch: 427796

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	257		mg/L		101	90 - 110

Lab Sample ID: LCS 180-427796/4
Matrix: Water
Analysis Batch: 427796

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	254		mg/L		100	90 - 110

Lab Sample ID: LLCS 180-427796/27
Matrix: Water
Analysis Batch: 427796

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	14.4		mg/L		94	75 - 125

Lab Sample ID: LLCS 180-427796/3
Matrix: Water
Analysis Batch: 427796

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	15.7		mg/L		103	75 - 125

Lab Sample ID: 180-152410-F-1 DU
Matrix: Water
Analysis Batch: 427796

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	33		31.1		mg/L		5	20
Bicarbonate Alkalinity as CaCO3	33		31.1		mg/L		5	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-152742-D-1 DU
Matrix: Water
Analysis Batch: 427796

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	330			332		mg/L				0.6	20
Bicarbonate Alkalinity as CaCO3	330			332		mg/L				0.6	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

HPLC/IC

Leach Batch: 427646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-427646/1-A	Method Blank	Total/NA	Water	D3987-85	

Analysis Batch: 427773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	EPA 300.0 R2.1	
680-231078-2	SCH-PZ-14S	Total/NA	Water	EPA 300.0 R2.1	
680-231078-3	SCH-PZ-17I	Total/NA	Water	EPA 300.0 R2.1	
680-231078-4	SCH-PZ-42I	Total/NA	Water	EPA 300.0 R2.1	
680-231078-5	SCH-PZ-41S	Total/NA	Water	EPA 300.0 R2.1	
680-231078-8	SCH-PZ-69I	Total/NA	Water	EPA 300.0 R2.1	
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	EPA 300.0 R2.1	
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	EPA 300.0 R2.1	
LB 180-427646/1-A	Method Blank	Total/NA	Water	EPA 300.0 R2.1	427646
MB 180-427773/36	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-427773/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-427773/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-427773/7	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-231078-1 MS	SCH-PZ-13S	Total/NA	Water	EPA 300.0 R2.1	
680-231078-1 MSD	SCH-PZ-13S	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 427908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-6	SCH-PZ-40I	Total/NA	Water	EPA 300.0 R2.1	
680-231078-7	SCH-PZ-39S	Total/NA	Water	EPA 300.0 R2.1	
MB 180-427908/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-427908/7	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-152836-D-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-152836-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 428412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total Recoverable	Water	3005A	
680-231078-2	SCH-PZ-14S	Total Recoverable	Water	3005A	
680-231078-3	SCH-PZ-17I	Total Recoverable	Water	3005A	
680-231078-4	SCH-PZ-42I	Total Recoverable	Water	3005A	
680-231078-5	SCH-PZ-41S	Total Recoverable	Water	3005A	
680-231078-6	SCH-PZ-40I	Total Recoverable	Water	3005A	
680-231078-7	SCH-PZ-39S	Total Recoverable	Water	3005A	
680-231078-8	SCH-PZ-69I	Total Recoverable	Water	3005A	
680-231078-9	SCH-AP1-FD-3	Total Recoverable	Water	3005A	
680-231078-10	SCH-AP1-FB-3	Total Recoverable	Water	3005A	
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-231076-E-7-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-231076-E-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 428559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 428559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-2	SCH-PZ-14S	Total/NA	Water	7470A	
680-231078-3	SCH-PZ-17I	Total/NA	Water	7470A	
680-231078-4	SCH-PZ-42I	Total/NA	Water	7470A	
680-231078-5	SCH-PZ-41S	Total/NA	Water	7470A	
680-231078-6	SCH-PZ-40I	Total/NA	Water	7470A	
680-231078-7	SCH-PZ-39S	Total/NA	Water	7470A	
680-231078-8	SCH-PZ-69I	Total/NA	Water	7470A	
MB 180-428559/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428559/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-231076-E-1-C MS	Matrix Spike	Total/NA	Water	7470A	
680-231076-E-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 428561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	7470A	
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	7470A	
MB 180-428561/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428561/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-231078-9 MS	SCH-AP1-FD-3	Total/NA	Water	7470A	
680-231078-9 MSD	SCH-AP1-FD-3	Total/NA	Water	7470A	

Analysis Batch: 428715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	EPA 7470A	428559
680-231078-2	SCH-PZ-14S	Total/NA	Water	EPA 7470A	428559
680-231078-3	SCH-PZ-17I	Total/NA	Water	EPA 7470A	428559
680-231078-4	SCH-PZ-42I	Total/NA	Water	EPA 7470A	428559
680-231078-5	SCH-PZ-41S	Total/NA	Water	EPA 7470A	428559
680-231078-6	SCH-PZ-40I	Total/NA	Water	EPA 7470A	428559
680-231078-7	SCH-PZ-39S	Total/NA	Water	EPA 7470A	428559
680-231078-8	SCH-PZ-69I	Total/NA	Water	EPA 7470A	428559
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	EPA 7470A	428561
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	EPA 7470A	428561
MB 180-428559/1-A	Method Blank	Total/NA	Water	EPA 7470A	428559
MB 180-428561/1-A	Method Blank	Total/NA	Water	EPA 7470A	428561
LCS 180-428559/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428559
LCS 180-428561/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428561
680-231076-E-1-C MS	Matrix Spike	Total/NA	Water	EPA 7470A	428559
680-231076-E-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	428559
680-231078-9 MS	SCH-AP1-FD-3	Total/NA	Water	EPA 7470A	428561
680-231078-9 MSD	SCH-AP1-FD-3	Total/NA	Water	EPA 7470A	428561

Analysis Batch: 430208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total Recoverable	Water	EPA 6020B	428412
680-231078-2	SCH-PZ-14S	Total Recoverable	Water	EPA 6020B	428412
680-231078-3	SCH-PZ-17I	Total Recoverable	Water	EPA 6020B	428412
680-231078-4	SCH-PZ-42I	Total Recoverable	Water	EPA 6020B	428412
680-231078-5	SCH-PZ-41S	Total Recoverable	Water	EPA 6020B	428412
680-231078-6	SCH-PZ-40I	Total Recoverable	Water	EPA 6020B	428412
680-231078-7	SCH-PZ-39S	Total Recoverable	Water	EPA 6020B	428412

Metals (Continued)

Analysis Batch: 430208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-8	SCH-PZ-69I	Total Recoverable	Water	EPA 6020B	428412
680-231078-9	SCH-AP1-FD-3	Total Recoverable	Water	EPA 6020B	428412
680-231078-10	SCH-AP1-FB-3	Total Recoverable	Water	EPA 6020B	428412
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428412
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428412
680-231076-E-7-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428412
680-231076-E-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428412

Analysis Batch: 431774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total Recoverable	Water	EPA 6020B	428412
680-231078-2	SCH-PZ-14S	Total Recoverable	Water	EPA 6020B	428412
680-231078-3	SCH-PZ-17I	Total Recoverable	Water	EPA 6020B	428412
680-231078-4	SCH-PZ-42I	Total Recoverable	Water	EPA 6020B	428412
680-231078-5	SCH-PZ-41S	Total Recoverable	Water	EPA 6020B	428412
680-231078-6	SCH-PZ-40I	Total Recoverable	Water	EPA 6020B	428412
680-231078-7	SCH-PZ-39S	Total Recoverable	Water	EPA 6020B	428412
680-231078-8	SCH-PZ-69I	Total Recoverable	Water	EPA 6020B	428412
680-231078-9	SCH-AP1-FD-3	Total Recoverable	Water	EPA 6020B	428412
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428412
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428412

Analysis Batch: 432466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-10	SCH-AP1-FB-3	Total Recoverable	Water	EPA 6020B	428412

General Chemistry

Analysis Batch: 427598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	SM2320 B	
680-231078-2	SCH-PZ-14S	Total/NA	Water	SM2320 B	
680-231078-3	SCH-PZ-17I	Total/NA	Water	SM2320 B	
680-231078-4	SCH-PZ-42I	Total/NA	Water	SM2320 B	
680-231078-5	SCH-PZ-41S	Total/NA	Water	SM2320 B	
680-231078-6	SCH-PZ-40I	Total/NA	Water	SM2320 B	
680-231078-7	SCH-PZ-39S	Total/NA	Water	SM2320 B	
MB 180-427598/77	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427598/76	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427598/75	Lab Control Sample	Total/NA	Water	SM2320 B	
180-152645-B-9 DU	Duplicate	Total/NA	Water	SM2320 B	

Prep Batch: 427758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	9030B	
680-231078-2	SCH-PZ-14S	Total/NA	Water	9030B	
680-231078-3	SCH-PZ-17I	Total/NA	Water	9030B	
680-231078-4	SCH-PZ-42I	Total/NA	Water	9030B	
680-231078-5	SCH-PZ-41S	Total/NA	Water	9030B	
680-231078-6	SCH-PZ-40I	Total/NA	Water	9030B	
680-231078-7	SCH-PZ-39S	Total/NA	Water	9030B	

General Chemistry (Continued)

Prep Batch: 427758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-8	SCH-PZ-69I	Total/NA	Water	9030B	
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	9030B	
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	9030B	
MB 180-427758/2-A	Method Blank	Total/NA	Water	9030B	
LCS 180-427758/1-A	Lab Control Sample	Total/NA	Water	9030B	
680-231078-1 MS	SCH-PZ-13S	Total/NA	Water	9030B	
680-231078-1 MSD	SCH-PZ-13S	Total/NA	Water	9030B	

Analysis Batch: 427796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-8	SCH-PZ-69I	Total/NA	Water	SM2320 B	
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	SM2320 B	
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	SM2320 B	
MB 180-427796/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-427796/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427796/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-427796/4	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427796/27	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427796/3	Lab Control Sample	Total/NA	Water	SM2320 B	
180-152410-F-1 DU	Duplicate	Total/NA	Water	SM2320 B	
180-152742-D-1 DU	Duplicate	Total/NA	Water	SM2320 B	

Analysis Batch: 427883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	EPA 9034	427758
680-231078-2	SCH-PZ-14S	Total/NA	Water	EPA 9034	427758
680-231078-3	SCH-PZ-17I	Total/NA	Water	EPA 9034	427758
680-231078-4	SCH-PZ-42I	Total/NA	Water	EPA 9034	427758
680-231078-5	SCH-PZ-41S	Total/NA	Water	EPA 9034	427758
680-231078-6	SCH-PZ-40I	Total/NA	Water	EPA 9034	427758
680-231078-7	SCH-PZ-39S	Total/NA	Water	EPA 9034	427758
680-231078-8	SCH-PZ-69I	Total/NA	Water	EPA 9034	427758
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	EPA 9034	427758
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	EPA 9034	427758
MB 180-427758/2-A	Method Blank	Total/NA	Water	EPA 9034	427758
LCS 180-427758/1-A	Lab Control Sample	Total/NA	Water	EPA 9034	427758
680-231078-1 MS	SCH-PZ-13S	Total/NA	Water	EPA 9034	427758
680-231078-1 MSD	SCH-PZ-13S	Total/NA	Water	EPA 9034	427758

Analysis Batch: 427967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	SM 2540C	
680-231078-2	SCH-PZ-14S	Total/NA	Water	SM 2540C	
680-231078-3	SCH-PZ-17I	Total/NA	Water	SM 2540C	
680-231078-4	SCH-PZ-42I	Total/NA	Water	SM 2540C	
680-231078-5	SCH-PZ-41S	Total/NA	Water	SM 2540C	
680-231078-6	SCH-PZ-40I	Total/NA	Water	SM 2540C	
680-231078-7	SCH-PZ-39S	Total/NA	Water	SM 2540C	
680-231078-8	SCH-PZ-69I	Total/NA	Water	SM 2540C	
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	SM 2540C	
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 427967 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-427967/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427967/2	Lab Control Sample	Total/NA	Water	SM 2540C	
680-231078-4 DU	SCH-PZ-42I	Total/NA	Water	SM 2540C	
680-231081-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 430037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	SM 3500	
680-231078-2	SCH-PZ-14S	Total/NA	Water	SM 3500	
680-231078-3	SCH-PZ-17I	Total/NA	Water	SM 3500	
680-231078-4	SCH-PZ-42I	Total/NA	Water	SM 3500	
680-231078-5	SCH-PZ-41S	Total/NA	Water	SM 3500	
680-231078-6	SCH-PZ-40I	Total/NA	Water	SM 3500	
680-231078-7	SCH-PZ-39S	Total/NA	Water	SM 3500	
680-231078-8	SCH-PZ-69I	Total/NA	Water	SM 3500	
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	SM 3500	

Field Service / Mobile Lab

Analysis Batch: 428232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	Field Sampling	
680-231078-2	SCH-PZ-14S	Total/NA	Water	Field Sampling	
680-231078-3	SCH-PZ-17I	Total/NA	Water	Field Sampling	
680-231078-4	SCH-PZ-42I	Total/NA	Water	Field Sampling	
680-231078-5	SCH-PZ-41S	Total/NA	Water	Field Sampling	
680-231078-6	SCH-PZ-40I	Total/NA	Water	Field Sampling	
680-231078-7	SCH-PZ-39S	Total/NA	Water	Field Sampling	
680-231078-8	SCH-PZ-69I	Total/NA	Water	Field Sampling	
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-13S

Date Collected: 02/23/23 12:17
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/01/23 19:56	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:30	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:59	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:47	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 14:39	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 20:07	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 12:17	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-14S

Date Collected: 02/23/23 09:47
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/01/23 19:38	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:34	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 13:02	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:48	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 14:45	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-14S

Lab Sample ID: 680-231078-2

Date Collected: 02/23/23 09:47

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 20:12	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 09:47	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-17I

Lab Sample ID: 680-231078-3

Date Collected: 02/23/23 15:00

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/01/23 21:29	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:38	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 13:06	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:49	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 14:48	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 20:17	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 15:00	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-42I

Lab Sample ID: 680-231078-4

Date Collected: 02/23/23 15:50

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/02/23 09:29	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:41	RSK	EET PIT
	Instrument ID: A									

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-42I

Date Collected: 02/23/23 15:50
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			431774	04/07/23 13:10	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:50	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 14:50	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 20:21	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 15:50	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-41S

Date Collected: 02/23/23 13:15
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/02/23 09:48	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:45	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			431774	04/07/23 13:29	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:52	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 14:52	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 20:27	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 13:15	FDS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-40I

Date Collected: 02/24/23 08:55
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427908	03/02/23 17:21	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 17:07	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			431774	04/07/23 13:40	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:53	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 14:59	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 20:32	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/24/23 08:55	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-39S

Date Collected: 02/24/23 08:39
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231078-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427908	03/02/23 17:40	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 17:22	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 13:36	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:54	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 15:01	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-PZ-39S

Lab Sample ID: 680-231078-7

Date Collected: 02/24/23 08:39

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 20:36	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/24/23 08:39	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-69I

Lab Sample ID: 680-231078-8

Date Collected: 02/24/23 10:27

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/01/23 23:38	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 17:26	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 13:43	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:55	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 15:03	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427796	03/01/23 14:09	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/24/23 10:27	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FD-3

Lab Sample ID: 680-231078-9

Date Collected: 02/24/23 00:00

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/01/23 23:56	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 17:30	RSK	EET PIT
	Instrument ID: A									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Client Sample ID: SCH-AP1-FD-3

Lab Sample ID: 680-231078-9

Date Collected: 02/24/23 00:00
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 13:47	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428561	03/09/23 11:00	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 14:02	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 15:06	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427796	03/01/23 14:14	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/24/23 00:00	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FB-3

Lab Sample ID: 680-231078-10

Date Collected: 02/23/23 13:45
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/02/23 02:24	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 17:33	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432466	04/14/23 16:38	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428561	03/09/23 11:00	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 14:05	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427758	03/01/23 10:59	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427883	03/01/23 15:08	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427796	03/01/23 14:51	MAM	EET PIT
	Instrument ID: PCTITRATOR									

Laboratory References:
EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231078-1
Project/Site: CCR - Plant Scherer - AP1 PZs

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23 *
Wisconsin	State	998027800	08-31-23

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

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231078-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM 3500	Iron, Ferric	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

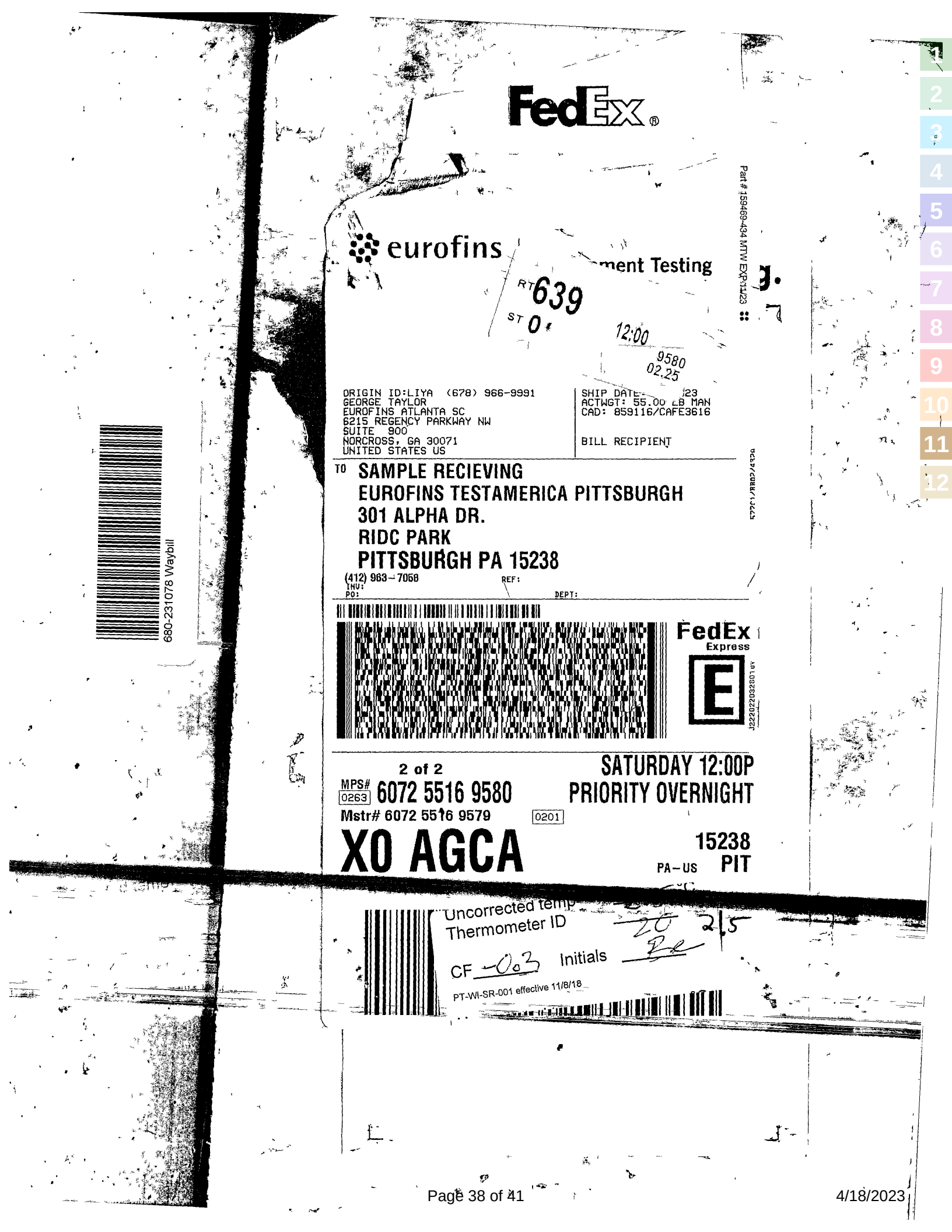
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058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ment Testing
RT 639
ST 0
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9580
02.25
Part # 159469-434 MTW EXP:11/23
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:
680-231078 Waybill
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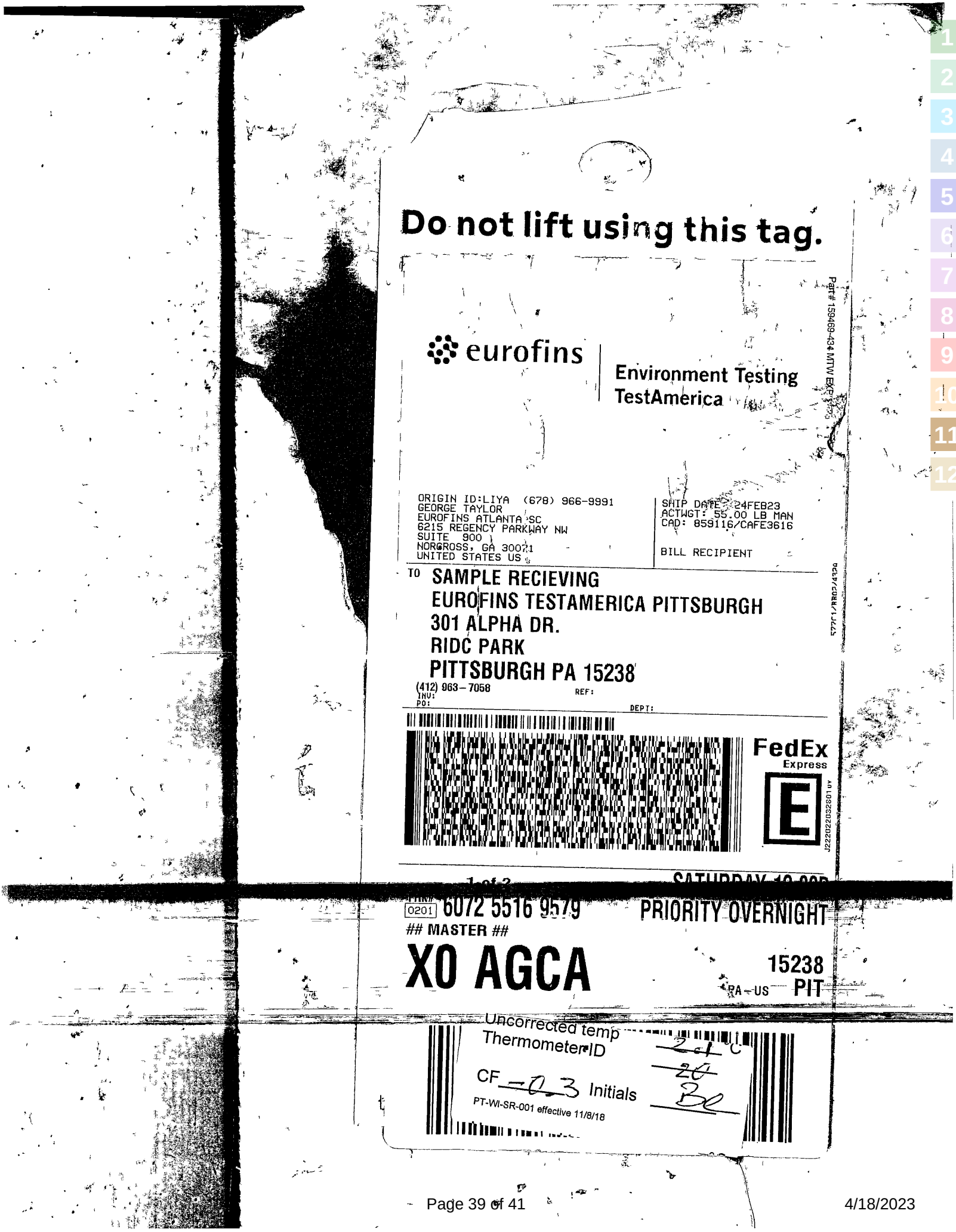
2 of 2
MPS# 0263 6072 5516 9580
Mstr# 6072 5516 9579
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO AGCA
15238
PA-US PIT
Uncorrected temp
Thermometer ID
CF -0.3
Initials
PT-WI-SR-001 effective 11/8/18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Environment Testing
TestAmerica
Part# 159469-434 MTW EXP 1225
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:
FedEx
Express
0201 6072 5516 9579
PRIORITY OVERNIGHT
MASTER
XO AGCA
15238
PA-US PIT
Uncorrected temp
Thermometer ID
CF -0.3 Initials
PT-WI-SR-001 effective 11/8/18

680-231078 Chain of Custody

Chain of Custody Record 244- ATLANTA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/24/23	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: WSP	1 of 1 COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	☑CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client:
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer AP1 PZs	☐ 1 week			
Site. Georgia	☐ 2 days			Job / SDG No :
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes.
																Radium to St. Lawn
SCH-PZ-13S	2/23/2023	12 17	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.14, Fe2= 0.0, collected at 12 17; analyzed 12:22
SCH-PZ-14S	2/23/2023	9:47	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.40, Fe2= 0.0, collected at 09 47 analyzed 09:52
SCH-PZ-17I	2/23/2023	15:00	G	WG	10	N	N	X	X	X	X	X	X	X	X	pH= 6.73, Fe2= 0.0, collected at 15.00 analyzed 15 05
SCH-PZ-42I	2/23/2023	15 50	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.36, Fe2= 0.0, collected at 15 50 analyzed 15 55
SCH-PZ-41S	2/23/2023	13 15	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.91, Fe2= 0.0, collected at 13:15 analyzed 13.20
SCH-PZ-40I	2/24/2023	8.55	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.16, Fe2= 1.5, collected at 08 55 analyzed 09 00
SCH-PZ-39S	2/24/2023	8.39	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.67, Fe2= 0.0, collected at 08:39 analyzed 08.44
SCH-PZ-69I	2/24/2023	10 27	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 54, Fe2= 1 5, collected at 10.27 analyzed 10.32
SCH-AP1-FD-3	2/24/2023	-	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.67, Fe2= 0.0, collected at 08 39 analyzed 08.44
SCH-AP1-FB-3	2/23/2023	13.45	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	5	1	1	4	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp (°C). Obs'd _____ Corr'd:_____ Therm ID No.:_____

Relinquished by: MARK MANN	Company: WSP	Date/Time: 14:18 02/24/2023	Received by:	Company:	Date/Time: 2/24/23 1415
Relinquished by:	Company: 1118	Date/Time: 2/24/23	Received by:	Company: E.P. Hunt	Date/Time: 2-25-23 0900
Relinquished by:	Company:	Date/Time:	Received in Laboratory by	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231078-1

Login Number: 231078
List Number: 3
Creator: Weimerskirk, Angie

List Source: Eurofins Pittsburgh
List Creation: 04/14/23 11:11 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/10/2023 4:42:56 PM

JOB DESCRIPTION

CCR Plant Scherer - AP1 PZs

JOB NUMBER

680-231078-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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4/10/2023 4:42:56 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-231078-2
Project/Site: CCR Plant Scherer - AP1 PZs

Qualifiers

Rad

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

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-231078-2
Project/Site: CCR Plant Scherer - AP1 PZs

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231078-1	SCH-PZ-13S	Water	02/23/23 12:17	02/25/23 09:00
680-231078-2	SCH-PZ-14S	Water	02/23/23 09:47	02/25/23 09:00
680-231078-3	SCH-PZ-17I	Water	02/23/23 15:00	02/25/23 09:00
680-231078-4	SCH-PZ-42I	Water	02/23/23 15:50	02/25/23 09:00
680-231078-5	SCH-PZ-41S	Water	02/23/23 13:15	02/25/23 09:00
680-231078-6	SCH-PZ-40I	Water	02/24/23 08:55	02/25/23 09:00
680-231078-7	SCH-PZ-39S	Water	02/24/23 08:39	02/25/23 09:00
680-231078-8	SCH-PZ-69I	Water	02/24/23 10:27	02/25/23 09:00
680-231078-9	SCH-AP1-FD-3	Water	02/24/23 00:00	02/25/23 09:00
680-231078-10	SCH-AP1-FB-3	Water	02/23/23 13:45	02/25/23 09:00

Job ID: 680-231078-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231078-2

Receipt
The samples were received on 2/25/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8°C and 2.2°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 Prep Batch 160-603681Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-13S (680-231078-1), SCH-PZ-14S (680-231078-2), SCH-PZ-17I (680-231078-3), SCH-PZ-42I (680-231078-4), SCH-PZ-41S (680-231078-5), SCH-PZ-40I (680-231078-6), SCH-PZ-39S (680-231078-7) and SCH-PZ-69I (680-231078-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 603681Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-PZ-13S (680-231078-1), SCH-PZ-14S (680-231078-2), SCH-PZ-17I (680-231078-3), SCH-PZ-42I (680-231078-4), SCH-PZ-41S (680-231078-5), SCH-PZ-40I (680-231078-6), SCH-PZ-39S (680-231078-7), SCH-PZ-69I (680-231078-8), (LCS 160-603681/2-A), (LCSD 160-603681/3-A) and (MB 160-603681/1-A)

Method 9315_Ra226: Radium-226 batch 603697Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-AP1-FD-3 (680-231078-9), SCH-AP1-FB-3 (680-231078-10), (LCS 160-603697/2-A), (LCSD 160-603697/24-A), (MB 160-603697/1-A), (280-173320-A-1-A), (280-173320-A-1-B MS) and (280-173320-A-1-C MSD)

Method 9320_Ra228: Radium-228 Prep Batch 160-603684Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-13S (680-231078-1), SCH-PZ-14S (680-231078-2), SCH-PZ-17I (680-231078-3), SCH-PZ-42I (680-231078-4), SCH-PZ-41S (680-231078-5), SCH-PZ-40I (680-231078-6), SCH-PZ-39S (680-231078-7) and SCH-PZ-69I (680-231078-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 603699The LCSD recovered at (132%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCSD 160-603699/24-A)

Method 9320_Ra228: Radium-228 batch 603699Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-AP1-FD-3 (680-231078-9), SCH-AP1-FB-3 (680-231078-10), (LCS 160-603699/2-A), (LCSD 160-603699/24-A), (MB 160-603699/1-A), (280-173320-A-1-D), (280-173320-A-1-E MS) and (280-173320-A-1-F MSD)

Method 9320_Ra228: Radium-228 batch 603684The LCS recovered at (126%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCS 160-603684/2-A)

Method 9320_Ra228: Radium-228 batch 603684Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-PZ-13S (680-231078-1), SCH-PZ-14S (680-231078-2), SCH-PZ-17I (680-231078-3), SCH-PZ-42I (680-231078-4), SCH-PZ-41S (680-231078-5), SCH-PZ-40I (680-231078-6), SCH-PZ-39S (680-231078-7), SCH-PZ-69I (680-231078-8), (LCS 160-603684/2-A), (LCSD 160-603684/3-A) and (MB 160-603684/1-A)

Job ID: 680-231078-2 (Continued)

Laboratory: Eurofins Savannah (Continued)

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

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

Client Sample ID: SCH-PZ-13S

Lab Sample ID: 680-231078-1

Date Collected: 02/23/23 12:17

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0130	U	0.0616	0.0616	1.00	0.119	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0280	U	0.213	0.213	1.00	0.424	pCi/L	03/15/23 10:00	03/30/23 12:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:21*	*1*
Y Carrier	*83.4*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:21*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0151	U	0.222	0.222	5.00	0.424	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-PZ-14S

Lab Sample ID: 680-231078-2

Date Collected: 02/23/23 09:47

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0231	U	0.0762	0.0762	1.00	0.143	pCi/L	03/15/23 09:46	04/06/23 18:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.0*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.390	U	0.406	0.408	1.00	0.657	pCi/L	03/15/23 10:00	03/30/23 12:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.0*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:21*	*1*
Y Carrier	*82.2*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:21*	*1*

Client Sample ID: SCH-PZ-14S

Lab Sample ID: 680-231078-2

Date Collected: 02/23/23 09:47

Matrix: Water

Date Received: 02/25/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.413	U	0.413	0.415	5.00	0.657	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-PZ-17I

Lab Sample ID: 680-231078-3

Date Collected: 02/23/23 15:00

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0322	U	0.0550	0.0551	1.00	0.0975	pCi/L	03/15/23 09:46	04/06/23 18:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:42*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.223	U	0.263	0.264	1.00	0.433	pCi/L	03/15/23 10:00	03/30/23 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:02*	*1*
Y Carrier	*85.6*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:02*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.255	U	0.269	0.270	5.00	0.433	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-PZ-42I

Lab Sample ID: 680-231078-4

Date Collected: 02/23/23 15:50

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101	U	0.0932	0.0936	1.00	0.145	pCi/L	03/15/23 09:46	04/06/23 18:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:42*	*1*

Client Sample ID: SCH-PZ-42I

Lab Sample ID: 680-231078-4

Date Collected: 02/23/23 15:50

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.550		0.346	0.350	1.00	0.506	pCi/L	03/15/23 10:00	03/30/23 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:11*	*1*
Y Carrier	*84.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:11*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.651		0.358	0.362	5.00	0.506	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-PZ-41S

Lab Sample ID: 680-231078-5

Date Collected: 02/23/23 13:15

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00151	U	0.0591	0.0591	1.00	0.120	pCi/L	03/15/23 09:46	04/06/23 18:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:42*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.170	U	0.282	0.282	1.00	0.482	pCi/L	03/15/23 10:00	03/30/23 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*
Y Carrier	*86.0*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.168	U	0.288	0.288	5.00	0.482	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-PZ-40I

Lab Sample ID: 680-231078-6

Date Collected: 02/24/23 08:55

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0725	U	0.0700	0.0703	1.00	0.107	pCi/L	03/15/23 09:46	04/06/23 18:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:43*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.642**		0.359	0.364	1.00	0.509	pCi/L	03/15/23 10:00	03/30/23 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*
Y Carrier	*84.9*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.714**		0.366	0.371	5.00	0.509	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-PZ-39S

Lab Sample ID: 680-231078-7

Date Collected: 02/24/23 08:39

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0991	U	0.0850	0.0854	1.00	0.127	pCi/L	03/15/23 09:46	04/06/23 18:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.5*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:43*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0321	U	0.301	0.301	1.00	0.561	pCi/L	03/15/23 10:00	03/30/23 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.5*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*
Y Carrier	*84.1*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231078-2

Client Sample ID: SCH-PZ-39S

Lab Sample ID: 680-231078-7

Date Collected: 02/24/23 08:39
Matrix: Water
Date Received: 02/25/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.131	U	0.313	0.313	5.00	0.561	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-PZ-69I

Lab Sample ID: 680-231078-8

Date Collected: 02/24/23 10:27
Matrix: Water
Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.128**		0.0788	0.0796	1.00	0.0936	pCi/L	03/15/23 09:46	04/06/23 18:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.1*		*30 - 110*	*03/15/23 09:46*	*04/06/23 18:44*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.225	U	0.256	0.256	1.00	0.562	pCi/L	03/15/23 10:00	03/30/23 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.1*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*
Y Carrier	*84.9*		*30 - 110*	*03/15/23 10:00*	*03/30/23 12:03*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0970	U	0.268	0.268	5.00	0.562	pCi/L		04/07/23 17:18	1

Client Sample ID: SCH-AP1-FD-3

Lab Sample ID: 680-231078-9

Date Collected: 02/24/23 00:00
Matrix: Water
Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0181	U	0.0839	0.0839	1.00	0.161	pCi/L	03/15/23 10:54	04/06/23 15:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.8*		*30 - 110*	*03/15/23 10:54*	*04/06/23 15:25*	*1*

Client Sample ID: SCH-AP1-FD-3

Lab Sample ID: 680-231078-9

Date Collected: 02/24/23 00:00

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0808	U	0.467	0.467	1.00	0.850	pCi/L	03/15/23 11:19	03/29/23 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.8*		*30 - 110*	*03/15/23 11:19*	*03/29/23 11:58*	*1*
Y Carrier	*78.1*		*30 - 110*	*03/15/23 11:19*	*03/29/23 11:58*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0989	U	0.474	0.474	5.00	0.850	pCi/L		04/07/23 17:19	1

Client Sample ID: SCH-AP1-FB-3

Lab Sample ID: 680-231078-10

Date Collected: 02/23/23 13:45

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00784	U	0.0518	0.0518	1.00	0.105	pCi/L	03/15/23 10:54	04/06/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/15/23 10:54*	*04/06/23 15:26*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0628	U	0.335	0.335	1.00	0.609	pCi/L	03/15/23 11:19	03/29/23 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/15/23 11:19*	*03/29/23 11:58*	*1*
Y Carrier	*81.9*		*30 - 110*	*03/15/23 11:19*	*03/29/23 11:58*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0707	U	0.339	0.339	5.00	0.609	pCi/L		04/07/23 17:19	1

Tracer/Carrier Summary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231078-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
280-173320-A-1-B MS	Matrix Spike	88.4
280-173320-A-1-C MSD	Matrix Spike Duplicate	86.4
680-231078-1	SCH-PZ-13S	93.2
680-231078-2	SCH-PZ-14S	76.0
680-231078-3	SCH-PZ-17I	87.6
680-231078-4	SCH-PZ-42I	87.6
680-231078-5	SCH-PZ-41S	92.9
680-231078-6	SCH-PZ-40I	87.3
680-231078-7	SCH-PZ-39S	78.5
680-231078-8	SCH-PZ-69I	77.1
680-231078-9	SCH-AP1-FD-3	63.8
680-231078-10	SCH-AP1-FB-3	85.6
LCS 160-603681/2-A	Lab Control Sample	91.0
LCS 160-603697/2-A	Lab Control Sample	90.4
LCSD 160-603681/3-A	Lab Control Sample Dup	89.8
LCSD 160-603697/24-A	Lab Control Sample Dup	87.0
MB 160-603681/1-A	Method Blank	92.9
MB 160-603697/1-A	Method Blank	94.9

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
280-173320-A-1-E MS	Matrix Spike	88.4	84.9
280-173320-A-1-F MSD	Matrix Spike Duplicate	86.4	81.1
680-231078-1	SCH-PZ-13S	93.2	83.4
680-231078-2	SCH-PZ-14S	76.0	82.2
680-231078-3	SCH-PZ-17I	87.6	85.6
680-231078-4	SCH-PZ-42I	87.6	84.5
680-231078-5	SCH-PZ-41S	92.9	86.0
680-231078-6	SCH-PZ-40I	87.3	84.9
680-231078-7	SCH-PZ-39S	78.5	84.1
680-231078-8	SCH-PZ-69I	77.1	84.9
680-231078-9	SCH-AP1-FD-3	63.8	78.1
680-231078-10	SCH-AP1-FB-3	85.6	81.9
LCS 160-603684/2-A	Lab Control Sample	91.0	81.5
LCS 160-603699/2-A	Lab Control Sample	90.4	82.2
LCSD 160-603684/3-A	Lab Control Sample Dup	89.8	83.4
LCSD 160-603699/24-A	Lab Control Sample Dup	87.0	82.6
MB 160-603684/1-A	Method Blank	92.9	84.5
MB 160-603699/1-A	Method Blank	94.9	82.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-603681/1-A
Matrix: Water
Analysis Batch: 606323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603681

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01435	U	0.0530	0.0530	1.00	0.116	pCi/L	03/15/23 09:46	04/06/23 15:36	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*03/15/23 09:46*	*04/06/23 15:36*	*1*

Lab Sample ID: LCS 160-603681/2-A
Matrix: Water
Analysis Batch: 606323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603681

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.20		1.17	1.00	0.116	pCi/L	99	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.0*		*30 - 110*

Lab Sample ID: LCSD 160-603681/3-A
Matrix: Water
Analysis Batch: 606323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603681

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.74		1.22	1.00	0.123	pCi/L	104	75 - 125	0.23	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*89.8*		*30 - 110*

Lab Sample ID: MB 160-603697/1-A
Matrix: Water
Analysis Batch: 606320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603697

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.007206	U	0.0373	0.0373	1.00	0.0874	pCi/L	03/15/23 10:54	04/06/23 15:24	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*03/15/23 10:54*	*04/06/23 15:24*	*1*

Lab Sample ID: LCS 160-603697/2-A
Matrix: Water
Analysis Batch: 606320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603697

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	12.42		1.28	1.00	0.137	pCi/L	110	75 - 125		

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-603697/2-A
Matrix: Water
Analysis Batch: 606320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603697

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.4		30 - 110

Lab Sample ID: LCSD 160-603697/24-A
Matrix: Water
Analysis Batch: 606323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603697

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.60		1.20	1.00	0.120	pCi/L	102	75 - 125	0.33	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	87.0		30 - 110

Lab Sample ID: 280-173320-A-1-B MS
Matrix: Water
Analysis Batch: 606320

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 603697

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.00424	U	14.9	13.97		1.47	1.00	0.132	pCi/L	94	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	88.4		30 - 110

Lab Sample ID: 280-173320-A-1-C MSD
Matrix: Water
Analysis Batch: 606320

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 603697

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.00424	U	15.1	14.91		1.56	1.00	0.119	pCi/L	99	60 - 140	0.31	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	86.4		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-603684/1-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603684

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2542	U	0.268	0.269	1.00	0.432	pCi/L	03/15/23 10:00	03/30/23 12:16	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		30 - 110	03/15/23 10:00	03/30/23 12:16	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-603684/1-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603684

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	84.5		30 - 110	03/15/23 10:00	03/30/23 12:16	1

Lab Sample ID: LCS 160-603684/2-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603684

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.08	10.21		1.38	1.00	0.553	pCi/L	126	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.0		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: LCSD 160-603684/3-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603684

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.08	9.497		1.29	1.00	0.470	pCi/L	118	75 - 125	0.27	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	89.8		30 - 110
Y Carrier	83.4		30 - 110

Lab Sample ID: MB 160-603699/1-A
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603699

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3975	U	0.326	0.328	1.00	0.506	pCi/L	03/15/23 11:19	03/29/23 11:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110	03/15/23 11:19	03/29/23 11:57	1
Y Carrier	82.6		30 - 110	03/15/23 11:19	03/29/23 11:57	1

Lab Sample ID: LCS 160-603699/2-A
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603699

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.08	9.994		1.34	1.00	0.479	pCi/L	124	75 - 125		

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-603699/2-A
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603699

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.4		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: LCSD 160-603699/24-A
Matrix: Water
Analysis Batch: 605413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603699

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.08	10.63		1.43	1.00	0.565	pCi/L	132	75 - 125	0.23	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	87.0		30 - 110
Y Carrier	82.6		30 - 110

Lab Sample ID: 280-173320-A-1-E MS
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 603699

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.859		10.6	12.76		1.75	1.00	0.799	pCi/L	112	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	88.4		30 - 110
Y Carrier	84.9		30 - 110

Lab Sample ID: 280-173320-A-1-F MSD
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 603699

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.859		10.8	12.64		1.78	1.00	0.818	pCi/L	109	60 - 140	0.04	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	86.4		30 - 110
Y Carrier	81.1		30 - 110

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231078-2

Rad

Prep Batch: 603681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	PrecSep-21	
680-231078-2	SCH-PZ-14S	Total/NA	Water	PrecSep-21	
680-231078-3	SCH-PZ-17I	Total/NA	Water	PrecSep-21	
680-231078-4	SCH-PZ-42I	Total/NA	Water	PrecSep-21	
680-231078-5	SCH-PZ-41S	Total/NA	Water	PrecSep-21	
680-231078-6	SCH-PZ-40I	Total/NA	Water	PrecSep-21	
680-231078-7	SCH-PZ-39S	Total/NA	Water	PrecSep-21	
680-231078-8	SCH-PZ-69I	Total/NA	Water	PrecSep-21	
MB 160-603681/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603681/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-603681/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 603684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-1	SCH-PZ-13S	Total/NA	Water	PrecSep_0	
680-231078-2	SCH-PZ-14S	Total/NA	Water	PrecSep_0	
680-231078-3	SCH-PZ-17I	Total/NA	Water	PrecSep_0	
680-231078-4	SCH-PZ-42I	Total/NA	Water	PrecSep_0	
680-231078-5	SCH-PZ-41S	Total/NA	Water	PrecSep_0	
680-231078-6	SCH-PZ-40I	Total/NA	Water	PrecSep_0	
680-231078-7	SCH-PZ-39S	Total/NA	Water	PrecSep_0	
680-231078-8	SCH-PZ-69I	Total/NA	Water	PrecSep_0	
MB 160-603684/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603684/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603684/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 603697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	PrecSep-21	
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	PrecSep-21	
MB 160-603697/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603697/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-603697/24-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
280-173320-A-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
280-173320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 603699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231078-9	SCH-AP1-FD-3	Total/NA	Water	PrecSep_0	
680-231078-10	SCH-AP1-FB-3	Total/NA	Water	PrecSep_0	
MB 160-603699/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603699/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603699/24-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
280-173320-A-1-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
280-173320-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231078-2

Client Sample ID: SCH-PZ-13S

Lab Sample ID: 680-231078-1

Date Collected: 02/23/23 12:17

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.04 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1001.04 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:21	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-14S

Lab Sample ID: 680-231078-2

Date Collected: 02/23/23 09:47

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1007.32 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606323	04/06/23 18:41	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1007.32 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605622	03/30/23 12:21	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-17I

Lab Sample ID: 680-231078-3

Date Collected: 02/23/23 15:00

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			992.44 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 18:42	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			992.44 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605718	03/30/23 12:02	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-42I

Lab Sample ID: 680-231078-4

Date Collected: 02/23/23 15:50

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.18 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 18:42	FLC	EET SL
	Instrument ID: GFPCRED									

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231078-2

Client Sample ID: SCH-PZ-42I

Lab Sample ID: 680-231078-4

Date Collected: 02/23/23 15:50

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1004.18 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605623	03/30/23 12:11	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-41S

Lab Sample ID: 680-231078-5

Date Collected: 02/23/23 13:15

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.82 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 18:42	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			999.82 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605718	03/30/23 12:03	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-40I

Lab Sample ID: 680-231078-6

Date Collected: 02/24/23 08:55

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			992.84 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 18:43	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			992.84 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605718	03/30/23 12:03	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-39S

Lab Sample ID: 680-231078-7

Date Collected: 02/24/23 08:39

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.82 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 18:43	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			994.82 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605718	03/30/23 12:03	FLC	EET SL
	Instrument ID: GFPCORANGE									

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231078-2

Client Sample ID: SCH-PZ-39S

Lab Sample ID: 680-231078-7

Date Collected: 02/24/23 08:39

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL

Client Sample ID: SCH-PZ-69I

Lab Sample ID: 680-231078-8

Date Collected: 02/24/23 10:27

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.56 mL	1.0 g	603681	03/15/23 09:46	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 18:44	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			996.56 mL	1.0 g	603684	03/15/23 10:00	DJP	EET SL
Total/NA	Analysis	9320		1			605718	03/30/23 12:03	FLC	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:18	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FD-3

Lab Sample ID: 680-231078-9

Date Collected: 02/24/23 00:00

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.89 mL	1.0 g	603697	03/15/23 10:54	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 15:25	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			995.89 mL	1.0 g	603699	03/15/23 11:19	DJP	EET SL
Total/NA	Analysis	9320		1			605408	03/29/23 11:58	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:19	EMH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FB-3

Lab Sample ID: 680-231078-10

Date Collected: 02/23/23 13:45

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.88 mL	1.0 g	603697	03/15/23 10:54	DJP	EET SL
Total/NA	Analysis	9315		1			606320	04/06/23 15:26	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			999.88 mL	1.0 g	603699	03/15/23 11:19	DJP	EET SL
Total/NA	Analysis	9320		1			605408	03/29/23 11:58	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			606603	04/07/23 17:19	EMH	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231078-2
Project/Site: CCR Plant Scherer - AP1 PZs

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231078-2

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

Protocol References:

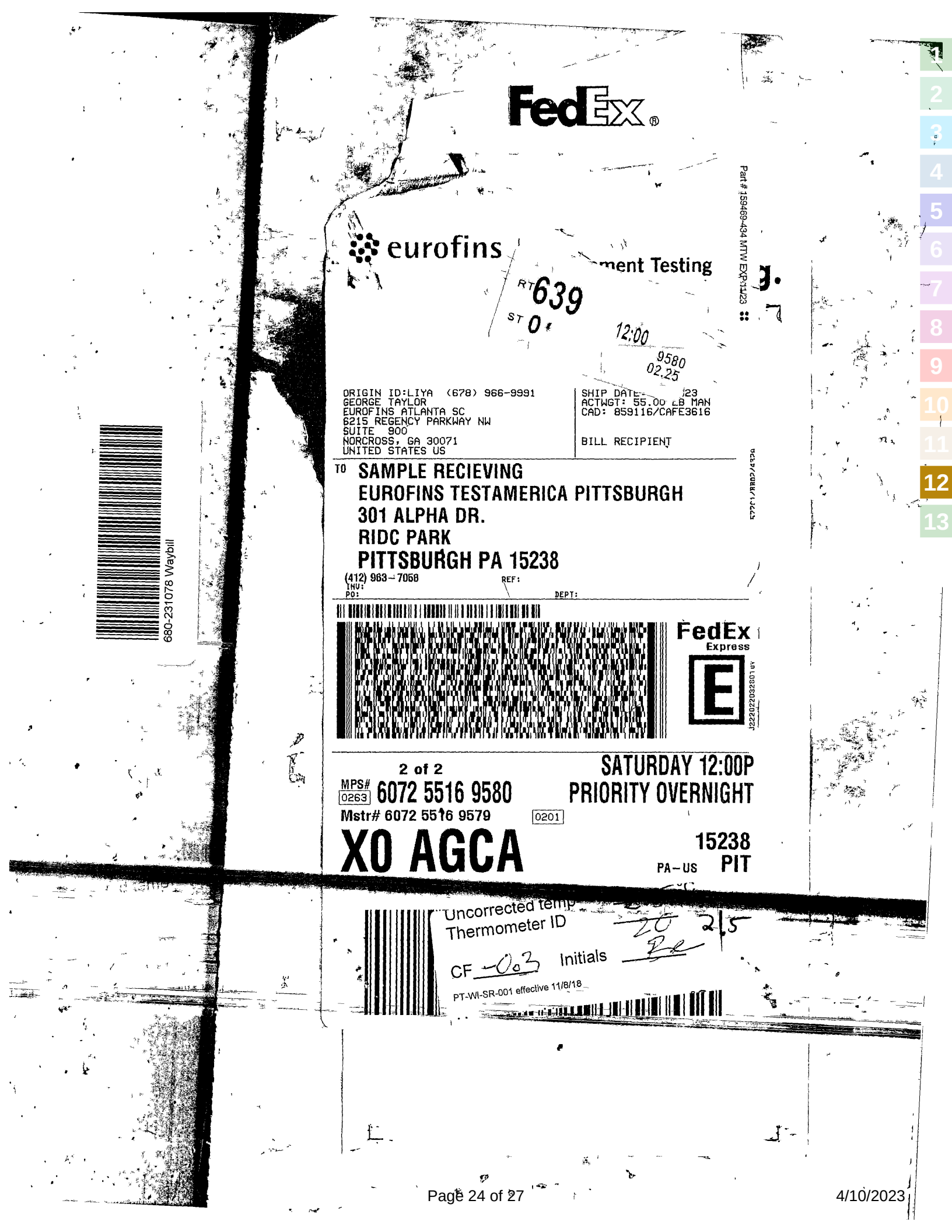
None = None

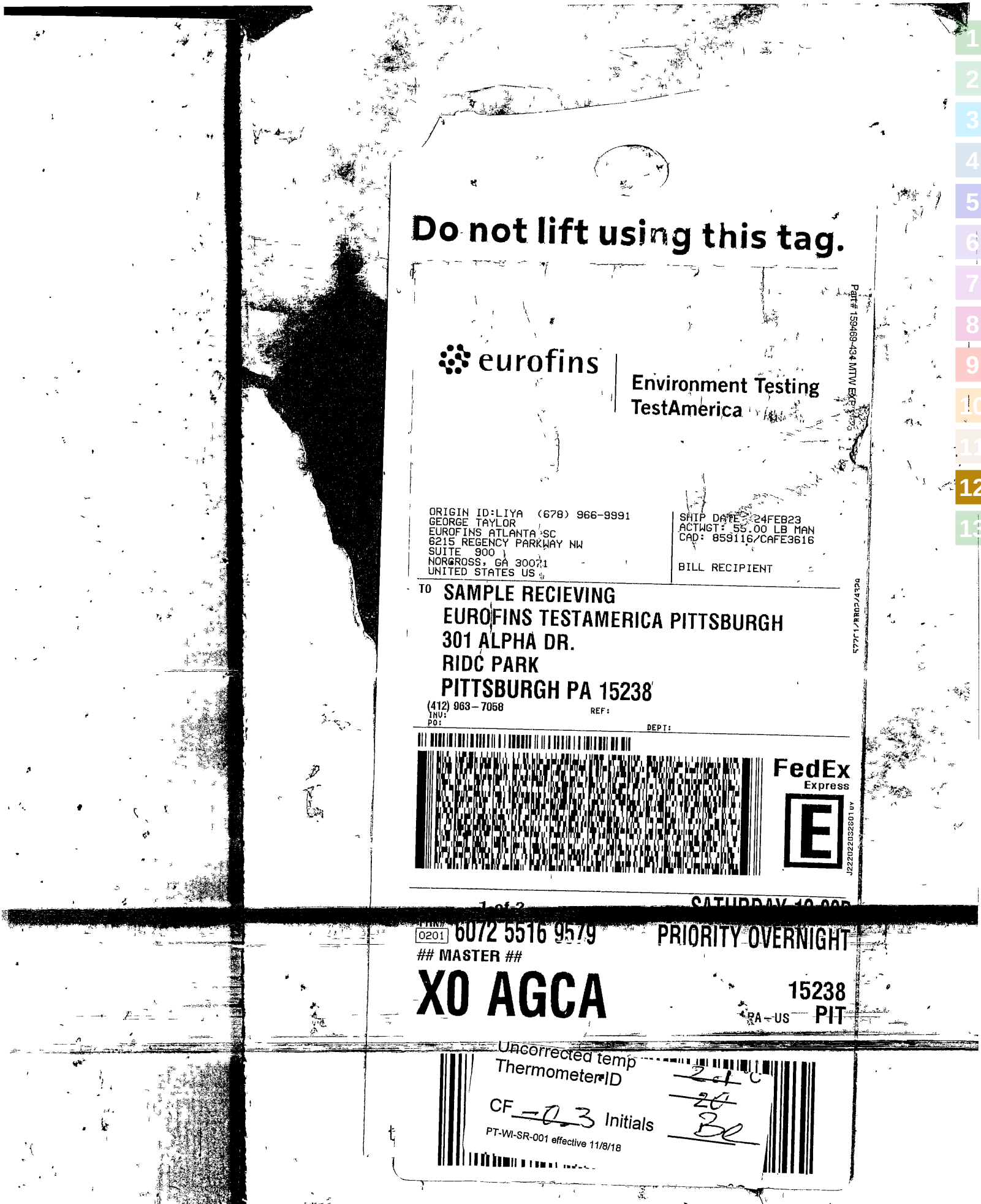
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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

Laboratory References:

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


FedEx
eurofins
ment Testing
RT 639
ST 0
12:00
9580
02.25
Part # 159469-434 MTW EXP:11/23
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:
680-231078 Waybill
FedEx Express
2 of 2
MPS# 0263 6072 5516 9580
Mstr# 6072 5516 9579
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO AGCA
15238
PA-US PIT
Uncorrected temp
Thermometer ID
CF -0.3
Initials
PT-WI-SR-001 effective 11/8/18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eurofins
Environment Testing
TestAmerica
Part# 159469-434 MTW EXP 1225
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:
FedEx
Express
0201 6072 5516 9579
PRIORITY OVERNIGHT
MASTER
XO AGCA
15238
PA-US PIT
Uncorrected temp
Thermometer ID
CF -0.3
Initials
PT-WI-SR-001 effective 11/8/18

680-231078 Chain of Custody

Chain of Custody Record 244- ATLANTA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/24/23	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: WSP	1 of 1 COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	☑CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client:
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer AP1 PZs	☐ 1 week			
Site. Georgia	☐ 2 days			Job / SDG No :
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes.
																Radium to St. Lawn
SCH-PZ-13S	2/23/2023	12 17	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.14, Fe2= 0.0, collected at 12 17; analyzed 12:22
SCH-PZ-14S	2/23/2023	9:47	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.40, Fe2= 0.0, collected at 09 47 analyzed 09:52
SCH-PZ-17I	2/23/2023	15:00	G	WG	10	N	N	X	X	X	X	X	X	X	X	pH= 6.73, Fe2= 0.0, collected at 15.00 analyzed 15 05
SCH-PZ-42I	2/23/2023	15 50	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.36, Fe2= 0.0, collected at 15 50 analyzed 15 55
SCH-PZ-41S	2/23/2023	13 15	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.91, Fe2= 0.0, collected at 13:15 analyzed 13.20
SCH-PZ-40I	2/24/2023	8.55	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.16, Fe2= 1.5, collected at 08 55 analyzed 09 00
SCH-PZ-39S	2/24/2023	8.39	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.67, Fe2= 0.0, collected at 08:39 analyzed 08.44
SCH-PZ-69I	2/24/2023	10 27	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 54, Fe2= 1 5, collected at 10.27 analyzed 10.32
SCH-AP1-FD-3	2/24/2023	-	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.67, Fe2= 0.0, collected at 08 39 analyzed 08.44
SCH-AP1-FB-3	2/23/2023	13.45	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	5	1	1	4	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

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

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp (°C). Obs'd _____ Corr'd:_____ Therm ID No.:_____

Relinquished by: MARK MANN	Company: WSP	Date/Time: 14:18 02/24/2023	Received by:	Company:	Date/Time: 2/24/23 1415
Relinquished by:	Company: 1118	Date/Time: 2/24/23	Received by:	Company: FEDEX	Date/Time: 2-25-23 0900
Relinquished by:	Company:	Date/Time:	Received in Laboratory by	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231078-2

Login Number: 231078
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/01/23 01:51 PM

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

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/18/2023 5:30:43 PM

JOB DESCRIPTION

CCR - Plant Scherer - AP1 PZs

JOB NUMBER

680-231081-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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4/18/2023 5:30:43 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231081-1	SCH-PZ-43S	Water	02/24/23 11:50	02/25/23 09:00
680-231081-2	SCH-AP1-EB-3	Water	02/24/23 10:25	02/25/23 09:00

Job ID: 680-231081-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231081-1

Receipt
The samples were received on 2/25/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-428804 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

General Chemistry
Method 9034_Calc: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: samples received with headspace

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

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Client Sample ID: SCH-PZ-43S

Date Collected: 02/24/23 11:50
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231081-1

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.8**		1.0	0.71	mg/L			03/10/23 13:35	1
Fluoride	**0.042**	**J**	0.10	0.026	mg/L			03/10/23 13:35	1
Sulfate	**160**	**F1**	1.0	0.76	mg/L			03/10/23 13:35	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:23	1
Barium	**0.076**		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:23	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:23	1
Boron	**1.1**		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:23	1
Calcium	**61**		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:23	1
Chromium	**0.0020**		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:23	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:23	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:23	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:23	1
Lithium	**0.0046**	**J**	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:23	1
Magnesium	**14**		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:23	1
Manganese	**0.0031**	**J**	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:23	1
Potassium	**3.7**		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:23	1
Sodium	**12**		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:23	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:15	1
Total Dissolved Solids (SM 2540C)	**330**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**61**		5.0	5.0	mg/L			02/27/23 18:27	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**61**		5.0	5.0	mg/L			02/27/23 18:27	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.97**				SU			02/24/23 11:50	1
Ferrous Iron	**0.0**				mg/L			02/24/23 11:50	1

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Client Sample ID: SCH-AP1-EB-3

Date Collected: 02/24/23 10:25
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231081-2

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/10/23 14:31	1
Fluoride	**0.042**	**J**	0.10	0.026	mg/L			03/10/23 14:31	1
Sulfate	<0.76		1.0	0.76	mg/L			03/10/23 14:31	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:27	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:27	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:27	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:27	1
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/14/23 16:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:27	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:27	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:27	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:27	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:27	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:27	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:27	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:27	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:27	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:27	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:27	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:27	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:16	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/02/23 16:57	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:31	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:31	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:31	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-428804/6
Matrix: Water
Analysis Batch: 428804

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/10/23 12:07	1
Fluoride	<0.026		0.10	0.026	mg/L			03/10/23 12:07	1
Sulfate	<0.76		1.0	0.76	mg/L			03/10/23 12:07	1

Lab Sample ID: LCS 180-428804/7
Matrix: Water
Analysis Batch: 428804

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.6		mg/L		97	90 - 110
Fluoride	2.50	2.73		mg/L		109	90 - 110
Sulfate	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: 680-231081-1 MS
Matrix: Water
Analysis Batch: 428804

Client Sample ID: SCH-PZ-43S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.8		50.0	55.6		mg/L		96	90 - 110
Fluoride	0.042	J	2.50	2.44		mg/L		96	90 - 110
Sulfate	160	F1	50.0	203	F1	mg/L		85	90 - 110

Lab Sample ID: 680-231081-1 MSD
Matrix: Water
Analysis Batch: 428804

Client Sample ID: SCH-PZ-43S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.8		50.0	55.7		mg/L		96	90 - 110	0	20
Fluoride	0.042	J	2.50	2.71		mg/L		107	90 - 110	11	20
Sulfate	160	F1	50.0	203	F1	mg/L		85	90 - 110	0	20

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

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:05	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:05	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:05	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:05	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:05	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:05	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:05	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:05	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:05	1

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

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:05	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:05	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:05	1

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:03	1

Lab Sample ID: LCS 180-428412/2-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.275		mg/L		110	80 - 120
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.488		mg/L		98	80 - 120
Cadmium	0.500	0.516		mg/L		103	80 - 120
Calcium	25.0	28.0		mg/L		112	80 - 120
Chromium	0.500	0.523		mg/L		105	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Iron	5.00	5.22		mg/L		104	80 - 120
Lead	0.500	0.509		mg/L		102	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Magnesium	25.0	25.7		mg/L		103	80 - 120
Manganese	0.500	0.497		mg/L		99	80 - 120
Molybdenum	0.500	0.526		mg/L		105	80 - 120
Potassium	25.0	26.0		mg/L		104	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Sodium	25.0	26.2		mg/L		105	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LCS 180-428412/2-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.27		mg/L		102	80 - 120

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

Lab Sample ID: 680-231076-E-7-B MS
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.269		mg/L		108	75 - 125
Arsenic	<0.00028		1.00	0.963		mg/L		96	75 - 125
Barium	0.082		1.00	1.07		mg/L		99	75 - 125
Beryllium	<0.00027		0.500	0.465		mg/L		93	75 - 125
Cadmium	<0.00022		0.500	0.499		mg/L		100	75 - 125
Calcium	34		25.0	60.1		mg/L		103	75 - 125
Chromium	<0.0015		0.500	0.499		mg/L		100	75 - 125
Cobalt	0.00069	J	0.500	0.476		mg/L		95	75 - 125
Iron	0.22		5.00	5.30		mg/L		102	75 - 125
Lead	<0.00038		0.500	0.493		mg/L		99	75 - 125
Lithium	0.0019	J	0.500	0.469		mg/L		93	75 - 125
Magnesium	16		25.0	39.8		mg/L		97	75 - 125
Manganese	0.15		0.500	0.614		mg/L		94	75 - 125
Molybdenum	<0.00061		0.500	0.506		mg/L		101	75 - 125
Potassium	2.9		25.0	27.6		mg/L		99	75 - 125
Selenium	<0.00074		1.00	0.996		mg/L		100	75 - 125
Sodium	20		25.0	44.2		mg/L		95	75 - 125
Thallium	<0.00047		1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 680-231076-E-7-C MSD
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.266		mg/L		107	75 - 125	1	20
Arsenic	<0.00028		1.00	0.962		mg/L		96	75 - 125	0	20
Barium	0.082		1.00	1.05		mg/L		97	75 - 125	2	20
Beryllium	<0.00027		0.500	0.463		mg/L		93	75 - 125	0	20
Cadmium	<0.00022		0.500	0.494		mg/L		99	75 - 125	1	20
Calcium	34		25.0	57.7		mg/L		93	75 - 125	4	20
Chromium	<0.0015		0.500	0.498		mg/L		100	75 - 125	0	20
Cobalt	0.00069	J	0.500	0.474		mg/L		95	75 - 125	0	20
Iron	0.22		5.00	5.17		mg/L		99	75 - 125	3	20
Lead	<0.00038		0.500	0.488		mg/L		98	75 - 125	1	20
Lithium	0.0019	J	0.500	0.467		mg/L		93	75 - 125	0	20
Magnesium	16		25.0	38.8		mg/L		93	75 - 125	3	20
Manganese	0.15		0.500	0.603		mg/L		91	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.508		mg/L		102	75 - 125	0	20
Potassium	2.9		25.0	27.2		mg/L		97	75 - 125	1	20
Selenium	<0.00074		1.00	0.989		mg/L		99	75 - 125	1	20
Sodium	20		25.0	42.6		mg/L		89	75 - 125	4	20
Thallium	<0.00047		1.00	1.01		mg/L		101	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-428561/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 13:56	1

Lab Sample ID: LCS 180-428561/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00239		mg/L		95	80 - 120		

Lab Sample ID: 680-231078-E-9-C MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 428561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.00013		0.00100	0.000927		mg/L		93	75 - 125		

Lab Sample ID: 680-231078-E-9-D MSD
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 428561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000953		mg/L		95	75 - 125	3	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-427619/2-A
Matrix: Water
Analysis Batch: 427674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		02/28/23 09:29	02/28/23 15:49	1

Lab Sample ID: LCS 180-427619/1-A
Matrix: Water
Analysis Batch: 427674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427619

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			17.0	16.0		mg/L		94	85 - 115		

Lab Sample ID: 680-231076-D-1-B MS
Matrix: Water
Analysis Batch: 427674

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 427619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<2.1		17.0	15.8		mg/L		93	75 - 125		

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 680-231076-D-1-C MSD
Matrix: Water
Analysis Batch: 427674

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 427619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<2.1		17.0	15.9		mg/L		93	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-427956/1
Matrix: Water
Analysis Batch: 427956

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/02/23 16:57	1

Lab Sample ID: LCS 180-427956/2
Matrix: Water
Analysis Batch: 427956

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	658		mg/L		99	85 - 115

Lab Sample ID: 180-152645-A-5 DU
Matrix: Water
Analysis Batch: 427956

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	95		94.0		mg/L		1	10

Lab Sample ID: MB 180-427967/1
Matrix: Water
Analysis Batch: 427967

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/02/23 17:58	1

Lab Sample ID: LCS 180-427967/2
Matrix: Water
Analysis Batch: 427967

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	656		mg/L		99	85 - 115

Lab Sample ID: 680-231081-1 DU
Matrix: Water
Analysis Batch: 427967

Client Sample ID: SCH-PZ-43S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	330		331		mg/L		1	10

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-427598/53
Matrix: Water
Analysis Batch: 427598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/27/23 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 17:15	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 17:15	1

Lab Sample ID: LCS 180-427598/52
Matrix: Water
Analysis Batch: 427598

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			255	259		mg/L		101	90 - 110		

Lab Sample ID: LLCS 180-427598/51
Matrix: Water
Analysis Batch: 427598

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			15.3	15.7		mg/L		103	75 - 125		

Lab Sample ID: 680-231076-B-8 DU
Matrix: Water
Analysis Batch: 427598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	68			66.8		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	68			66.8		mg/L				2	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

HPLC/IC

Analysis Batch: 428804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	EPA 300.0 R2.1	
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-428804/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-428804/7	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-231081-1 MS	SCH-PZ-43S	Total/NA	Water	EPA 300.0 R2.1	
680-231081-1 MSD	SCH-PZ-43S	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 428412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total Recoverable	Water	3005A	
680-231081-2	SCH-AP1-EB-3	Total Recoverable	Water	3005A	
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-231076-E-7-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-231076-E-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 428561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	7470A	
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	7470A	
MB 180-428561/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428561/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-231078-E-9-C MS	Matrix Spike	Total/NA	Water	7470A	
680-231078-E-9-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 428715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	EPA 7470A	428561
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	EPA 7470A	428561
MB 180-428561/1-A	Method Blank	Total/NA	Water	EPA 7470A	428561
LCS 180-428561/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428561
680-231078-E-9-C MS	Matrix Spike	Total/NA	Water	EPA 7470A	428561
680-231078-E-9-D MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	428561

Analysis Batch: 430208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total Recoverable	Water	EPA 6020B	428412
680-231081-2	SCH-AP1-EB-3	Total Recoverable	Water	EPA 6020B	428412
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428412
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428412
680-231076-E-7-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428412
680-231076-E-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428412

Analysis Batch: 431774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total Recoverable	Water	EPA 6020B	428412
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428412
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428412

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Metals

Analysis Batch: 432466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-2	SCH-AP1-EB-3	Total Recoverable	Water	EPA 6020B	428412

General Chemistry

Analysis Batch: 427598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	SM2320 B	
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	SM2320 B	
MB 180-427598/53	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427598/52	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427598/51	Lab Control Sample	Total/NA	Water	SM2320 B	
680-231076-B-8 DU	Duplicate	Total/NA	Water	SM2320 B	

Prep Batch: 427619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	9030B	
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	9030B	
MB 180-427619/2-A	Method Blank	Total/NA	Water	9030B	
LCS 180-427619/1-A	Lab Control Sample	Total/NA	Water	9030B	
680-231076-D-1-B MS	Matrix Spike	Total/NA	Water	9030B	
680-231076-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 427674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	EPA 9034	427619
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	EPA 9034	427619
MB 180-427619/2-A	Method Blank	Total/NA	Water	EPA 9034	427619
LCS 180-427619/1-A	Lab Control Sample	Total/NA	Water	EPA 9034	427619
680-231076-D-1-B MS	Matrix Spike	Total/NA	Water	EPA 9034	427619
680-231076-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 9034	427619

Analysis Batch: 427956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	SM 2540C	
MB 180-427956/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427956/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-152645-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 427967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	SM 2540C	
MB 180-427967/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427967/2	Lab Control Sample	Total/NA	Water	SM 2540C	
680-231081-1 DU	SCH-PZ-43S	Total/NA	Water	SM 2540C	

Analysis Batch: 430037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	SM 3500	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Field Service / Mobile Lab

Analysis Batch: 428382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Client Sample ID: SCH-PZ-43S

Lab Sample ID: 680-231081-1

Date Collected: 02/24/23 11:50

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428804	03/10/23 13:35	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:23	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:51	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428561	03/09/23 11:00	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 14:06	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:15	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 18:27	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428382	02/24/23 11:50	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-EB-3

Lab Sample ID: 680-231081-2

Date Collected: 02/24/23 10:25

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428804	03/10/23 14:31	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:27	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432466	04/14/23 16:41	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428561	03/09/23 11:00	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 14:07	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:16	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427956	03/02/23 16:57	LWM	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-231081-1
Project/Site: CCR - Plant Scherer - AP1 PZs

Client Sample ID: SCH-AP1-EB-3
Lab Sample ID: 680-231081-2
Date Collected: 02/24/23 10:25
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 18:31	MAM	EET PIT

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231081-1
Project/Site: CCR - Plant Scherer - AP1 PZs

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23 *
Wisconsin	State	998027800	08-31-23

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

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - AP1 PZs

Job ID: 680-231081-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM 3500	Iron, Ferric	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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


Part # 159469-494 MTW EXP 11/23
eurofins
Environment Testing
TestAmerica
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
DEPT:
FedEx
Express
680-231081 Waybill
SATURDAY 12:00P
MPS# 6072 5516 9546
Mstr# 6072 5516 9524
0263
0201
XO AGCA
15238
PA-US PIT
Thermometer ID 20
CF -0.3 Initials BA
PT-WI-SR-001 effective 11/8/18

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412 963.7058 fax 412 963 2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/24/23	COC No
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: WSP	1 of 1 COCs
Southern Company	**Analysis Turnaround Time**			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client.
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling
Project Name: CCR - Plant Scherer AP1 PZs	☐ 1 week			
Site: Georgia	☐ 2 days			Job / SDG No
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes
SCH-PZ-43S	2/24/2023	11 50	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 97, Fe2= 0 0, collected at 11.50, analyzed 11 55
SCH-AP1-EB-3	2/24/2023	10 25	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	5	1	1	4	

TO ST LOUIS

680-231081 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

***Special Instructions*/QC Requirements & Comments:** SCH-CCR-ASSMT-2023S1

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd:_____ Corr'd._____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
DUANE FULTON	WSP	02/24/23 1550		Eurofins	2/24/23 15:50
	Eurofins	16:00 2/24/23		Eurofins	2-24-23 0900
	Company	Date/Time:	Received in Laboratory by	Company	Date/Time.

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/18/2023

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231081-1

Login Number: 231081
List Number: 3
Creator: Weimerskirk, Angie

List Source: Eurofins Pittsburgh
List Creation: 04/14/23 11:11 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/12/2023 9:02:25 AM

JOB DESCRIPTION

CCR - Plant Scherer - Additional PZ

JOB NUMBER

680-231212-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
4/12/2023 9:02:25 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

Qualifiers

Rad

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

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231212-1	SCH-PZ-25S	Water	02/27/23 15:55	03/01/23 09:24

Case Narrative

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

Job ID: 680-231212-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231212-2

Receipt
The samples were received on 3/1/2023 9:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2°C and 3.2°C

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 Prep Batch 160-604353Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-25S (680-231212-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 prep batch 160-604353:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-PZ-25S (680-231212-1), (LCS 160-604353/2-A), (LCSD 160-604353/3-A) and (MB 160-604353/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-604358Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-25S (680-231212-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 604358Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-PZ-25S (680-231212-1), (LCS 160-604358/2-A), (LCSD 160-604358/3-A) and (MB 160-604358/1-A)

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

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

Client Sample ID: SCH-PZ-25S
Lab Sample ID: 680-231212-1

Date Collected: 02/27/23 15:55
Matrix: Water

Date Received: 03/01/23 09:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.121	U	0.0901	0.0908	1.00	0.128	pCi/L	03/20/23 11:13	04/11/23 06:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/20/23 11:13*	*04/11/23 06:44*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.322	U	0.331	0.333	1.00	0.534	pCi/L	03/20/23 11:35	04/05/23 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*03/20/23 11:35*	*04/05/23 11:37*	*1*
Y Carrier	*80.4*		*30 - 110*	*03/20/23 11:35*	*04/05/23 11:37*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.442	U	0.343	0.345	5.00	0.534	pCi/L		04/11/23 23:27	1

Tracer/Carrier Summary

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

Method: 9315 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-231212-1	SCH-PZ-25S	85.6
LCS 160-604353/2-A	Lab Control Sample	90.5
LCSD 160-604353/3-A	Lab Control Sample Dup	93.6
MB 160-604353/1-A	Method Blank	90.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-231212-1	SCH-PZ-25S	85.6	80.4
LCS 160-604358/2-A	Lab Control Sample	90.5	90.8
LCSD 160-604358/3-A	Lab Control Sample Dup	93.6	85.2
MB 160-604358/1-A	Method Blank	90.5	86.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-604353/1-A
Matrix: Water
Analysis Batch: 606895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604353

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03495	U	0.0804	0.0804	1.00	0.172	pCi/L	03/20/23 11:13	04/11/23 06:30	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*03/20/23 11:13*	*04/11/23 06:30*	*1*

Lab Sample ID: LCS 160-604353/2-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604353

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.56		1.21	1.00	0.118	pCi/L	102	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.5*		*30 - 110*

Lab Sample ID: LCSD 160-604353/3-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604353

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.64		1.22	1.00	0.130	pCi/L	103	75 - 125	0.03	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.6*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-604358/1-A
Matrix: Water
Analysis Batch: 606261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604358

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.09792	U	0.271	0.272	1.00	0.484	pCi/L	03/20/23 11:35	04/05/23 11:42	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*03/20/23 11:35*	*04/05/23 11:42*	*1*
Y Carrier	*86.4*		*30 - 110*	*03/20/23 11:35*	*04/05/23 11:42*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-604358/2-A
Matrix: Water
Analysis Batch: 606261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604358

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.06	8.920		1.20	1.00	0.395	pCi/L	111	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.5*		*30 - 110*
Y Carrier	*90.8*		*30 - 110*

Lab Sample ID: LCSD 160-604358/3-A
Matrix: Water
Analysis Batch: 606261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604358

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.06	8.860		1.20	1.00	0.421	pCi/L	110	75 - 125	0.03	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.6*		*30 - 110*
Y Carrier	*85.2*		*30 - 110*

QC Association Summary

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

Rad

Prep Batch: 604353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	PrecSep-21	
MB 160-604353/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604353/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-604353/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 604358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	PrecSep_0	
MB 160-604358/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604358/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-604358/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

Client Sample ID: SCH-PZ-25S
Lab Sample ID: 680-231212-1

Date Collected: 02/27/23 15:55
Matrix: Water
Date Received: 03/01/23 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.94 mL	1.0 g	604353	03/20/23 11:13	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 06:44	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1004.94 mL	1.0 g	604358	03/20/23 11:35	DJP	EET SL
Total/NA	Analysis	9320		1			606157	04/05/23 11:37	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			607004	04/11/23 23:27	EMH	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

Method Summary

Client: Southern Company
Job ID: 680-231212-2
Project/Site: CCR - Plant Scherer - Additional PZ

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

Protocol References:

None = None

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

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

Laboratory References:

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

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/28/23	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier:	1 of 1 COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client:
JAbraham@southernco.com	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: CCR - Plant Scherer Additional PZ				Job / SDG No.:
Site: Georgia				
Project #: 68027798				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K	Co only	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Sample Specific Notes:
SCH-PZ-25S	2/27/2023	15:55	G	WG	6	N	N	X	X	X	X		X	X	pH= 4.84
SCH-PZ-25I	2/27/2023	14:20	G	WG	3	N	N	X			X	X	X	X	pH= 6.65
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	4	1	1	

680-231212 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by: Mark Mann	Company: WSP	Date/Time: 0800 02/28/2023	Received by: Elaine Cook	Company: Courier	Date/Time: 2/28/23 8:00
Relinquished by: Elaine Cook	Company: Courier NOW	Date/Time: 02/28/23	Received by: Elaine Cook	Company:	Date/Time: 2-28-23 10:10
Relinquished by:	Company:	Date/Time: 2-28-23 10:10	Received in Laboratory by: Tina Worthington	Company: CDSR	Date/Time: 3/2/23 0950

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/12/2023

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231212-2

Login Number: 231212
List Number: 3
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/03/23 08:49 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/4/2023 8:58:51 AM

JOB DESCRIPTION

CCR - Plant Scherer AP1 PZs

JOB NUMBER

680-231323-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
4/4/2023 8:58:51 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-231323-2
Project/Site: CCR - Plant Scherer AP1 PZs

Qualifiers

Rad

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

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-231323-2
Project/Site: CCR - Plant Scherer AP1 PZs

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231323-1	SCH-PZ-44I	Water	02/28/23 10:30	03/02/23 10:00

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-2

Job ID: 680-231323-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231323-2

Receipt
The sample was received on 3/2/2023 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 Prep Batch 160-602684Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-44I (680-231323-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 602684Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-PZ-44I (680-231323-1), (LCS 160-602684/2-A), (LCSD 160-602684/3-A) and (MB 160-602684/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-602686Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-44I (680-231323-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 602686Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-PZ-44I (680-231323-1), (LCS 160-602686/2-A), (LCSD 160-602686/3-A) and (MB 160-602686/1-A)

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

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

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-2

Client Sample ID: SCH-PZ-44I
Date Collected: 02/28/23 10:30
Date Received: 03/02/23 10:00

Lab Sample ID: 680-231323-1
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0320	U	0.0521	0.0522	1.00	0.0915	pCi/L	03/07/23 10:34	03/29/23 07:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*03/07/23 10:34*	*03/29/23 07:37*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0928	U	0.199	0.199	1.00	0.424	pCi/L	03/07/23 10:59	03/22/23 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*03/07/23 10:59*	*03/22/23 12:18*	*1*
Y Carrier	*81.1*		*30 - 110*	*03/07/23 10:59*	*03/22/23 12:18*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0607	U	0.206	0.206	5.00	0.424	pCi/L		03/30/23 00:14	1

Tracer/Carrier Summary

Client: Southern Company
Job ID: 680-231323-2
Project/Site: CCR - Plant Scherer AP1 PZs

Method: 9315 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-231323-1	SCH-PZ-44I	92.4
LCS 160-602684/2-A	Lab Control Sample	93.5
LCSD 160-602684/3-A	Lab Control Sample Dup	89.8
MB 160-602684/1-A	Method Blank	94.4

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-231323-1	SCH-PZ-44I	92.4	81.1
LCS 160-602686/2-A	Lab Control Sample	93.5	84.1
LCSD 160-602686/3-A	Lab Control Sample Dup	89.8	81.1
MB 160-602686/1-A	Method Blank	94.4	81.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-602684/1-A
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602684

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05756	U	0.0609	0.0611	1.00	0.0956	pCi/L	03/07/23 10:34	03/29/23 07:33	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*30 - 110*	*03/07/23 10:34*	*03/29/23 07:33*	*1*

Lab Sample ID: LCS 160-602684/2-A
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602684

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.85		1.14	1.00	0.152	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.5*		*30 - 110*

Lab Sample ID: LCSD 160-602684/3-A
Matrix: Water
Analysis Batch: 605408

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602684

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.05		1.16	1.00	0.131	pCi/L	98	75 - 125	0.09	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*89.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602686/1-A
Matrix: Water
Analysis Batch: 604718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602686

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1563	U	0.275	0.276	1.00	0.553	pCi/L	03/07/23 10:59	03/22/23 12:16	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*30 - 110*	*03/07/23 10:59*	*03/22/23 12:16*	*1*
Y Carrier	*81.9*		*30 - 110*	*03/07/23 10:59*	*03/22/23 12:16*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-602686/2-A
Matrix: Water
Analysis Batch: 604718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602686

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.10	7.508		1.08	1.00	0.525	pCi/L	93	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.5*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

Lab Sample ID: LCSD 160-602686/3-A
Matrix: Water
Analysis Batch: 604718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602686

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.10	7.076		1.05	1.00	0.447	pCi/L	87	75 - 125	0.20	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*89.8*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

QC Association Summary

Client: Southern Company
Job ID: 680-231323-2
Project/Site: CCR - Plant Scherer AP1 PZs

Rad

Prep Batch: 602684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	PrecSep-21	
MB 160-602684/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602684/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-602684/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 602686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	PrecSep_0	
MB 160-602686/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602686/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-602686/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Job ID: 680-231323-2
Project/Site: CCR - Plant Scherer AP1 PZs

Client Sample ID: SCH-PZ-44I
Lab Sample ID: 680-231323-1
Date Collected: 02/28/23 10:30
Matrix: Water
Date Received: 03/02/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.53 mL	1.0 g	602684	03/07/23 10:34	DJP	EET SL
Total/NA	Analysis	9315		1			605408	03/29/23 07:37	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1003.53 mL	1.0 g	602686	03/07/23 10:59	DJP	EET SL
Total/NA	Analysis	9320		1			604718	03/22/23 12:18	FLC	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			605593	03/30/23 00:14	EMH	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231323-2
Project/Site: CCR - Plant Scherer AP1 PZs

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-2

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

Protocol References:

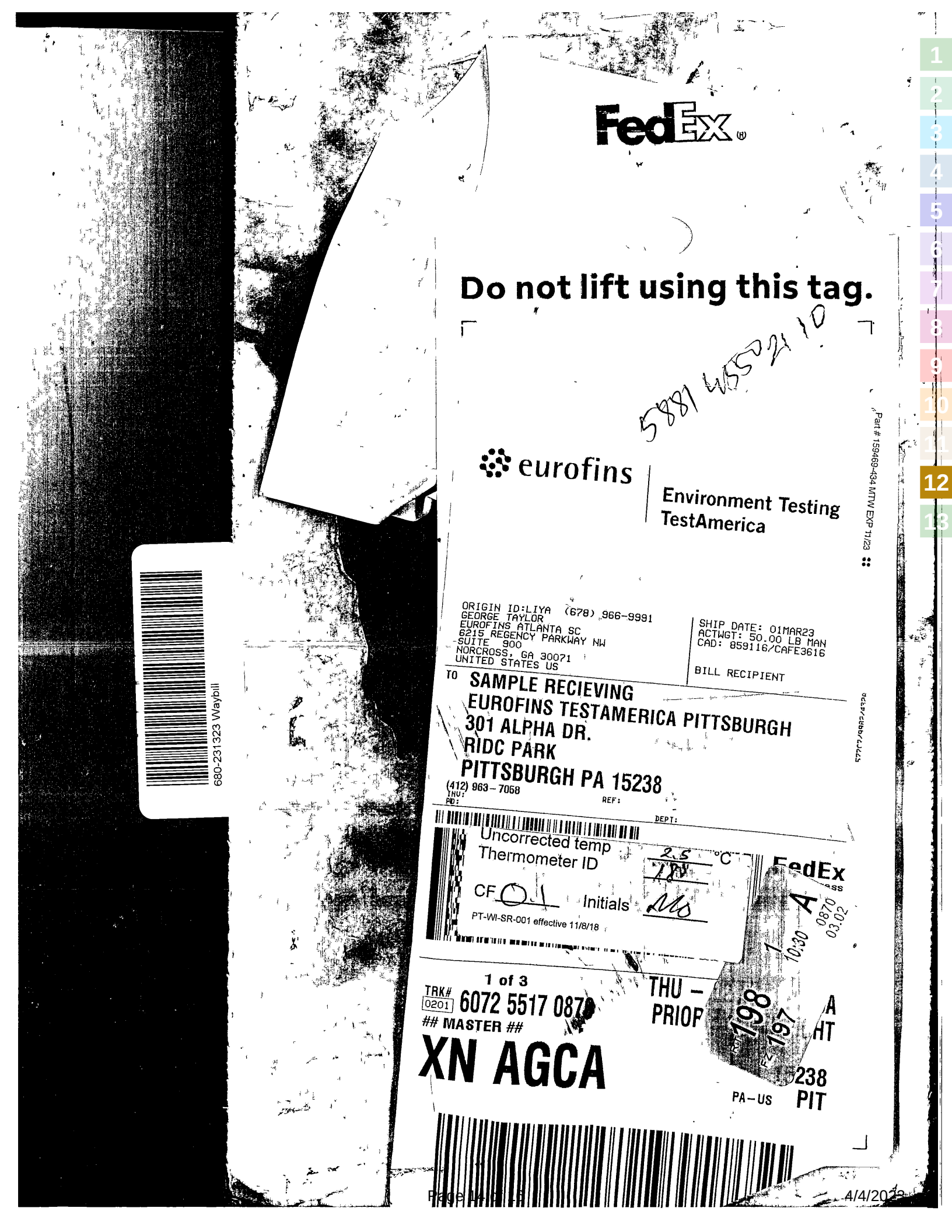
None = None

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

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

Laboratory References:

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



FedEx

Do not lift using this tag.

5881 4552 2 10

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Part # 159469-434 MTW EXP 11/23

680-231323 Waybill

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 01MAR23
ACTWGT: 50.00 LB MAN
CAD: 859116/CAFE3616

BILL RECIPIENT

TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058

THU:
PO:
REF:
DEPT:

Uncorrected temp 2.5 °C
Thermometer ID 18
CF 0.1 Initials MO
PT-WI-SR-001 effective 11/8/18

FedEx
Express
A
0870
03.02
10:30
1
168
197
EN

1 of 3

TRK# 0201 6072 5517 0870

THU -
PRIOR
A
HT

MASTER

XN AGCA

238
PA-US PIT

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963 7058 fax 412 963.2468

244- ATLANTA

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulation Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

03/01/23

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: ~~02/28/23~~	COC No.
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: ~~FWD~~ Courier No	1 of 1 COCs
Southern Company	**Analysis Turnaround Time**			Sampler
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling
Project Name: CCR - Plant Scherer AP1 PZs	☐ 1 week			
Site Georgia	☐ 2 days			Job / SDG No.
Project #: 68027798	☐ 1 day			

Radium to

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes:
SCH-PZ-44I	2/28/2023	10 30	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 54, Fe2= 0 0, collected at 10.30; analyzed 10.35
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	1	4	4	5	1	1	4	

680-231323 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C). Obs'd _____ Corr'd._____ Therm ID No._____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by: Duane Fulton	USI	03/01/23	Mike Gremmie	Courier No	3/1/23 8:17
Relinquished by: Mike Gremmie	Courier No	3/1/23 10:15	Received by: Michael Mockel	Company.	Date/Time. 3/1/23 8:13
Relinquished by: Michael Mockel	Company	Date/Time 3/1/23 8:15	Received in Laboratory by:	Company: FEDEX	Date/Time: 3-2-23 1000

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/4/2023

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231323-2

Login Number: 231323
List Number: 3
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/03/23 08:50 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/5/2023 5:54:00 PM

JOB DESCRIPTION

GPC Plant Scherer - Ash Pond

JOB NUMBER

680-230928-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
4/5/2023 5:54:00 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-2

Qualifiers

Rad

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

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-230928-2
Project/Site: GPC Plant Scherer - Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230928-1	SCH-SGWA-1	Water	02/21/23 13:20	02/23/23 14:49
680-230928-2	SCH-AP1-FB-1	Water	02/21/23 16:20	02/23/23 14:49
680-230928-3	SCH-SGWA-5	Water	02/21/23 15:18	02/23/23 14:49
680-230928-4	SCH-AP1-EB-1	Water	02/21/23 16:08	02/23/23 14:49
680-230928-5	SCH-SGWA-3	Water	02/21/23 16:02	02/23/23 14:49

Job ID: 680-230928-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-230928-2

Receipt
The samples were received on 2/23/2023 2:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 Prep Batch 160-602828Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-SGWA-1 (680-230928-1), SCH-AP1-FB-1 (680-230928-2), SCH-SGWA-5 (680-230928-3), SCH-AP1-EB-1 (680-230928-4) and SCH-SGWA-3 (680-230928-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 602828Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-SGWA-1 (680-230928-1), SCH-AP1-FB-1 (680-230928-2), SCH-SGWA-5 (680-230928-3), SCH-AP1-EB-1 (680-230928-4), SCH-SGWA-3 (680-230928-5), (LCS 160-602828/2-A), (LCSD 160-602828/3-A) and (MB 160-602828/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 602829Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-SGWA-1 (680-230928-1), SCH-AP1-FB-1 (680-230928-2), SCH-SGWA-5 (680-230928-3), SCH-AP1-EB-1 (680-230928-4) and SCH-SGWA-3 (680-230928-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 602829The LCS recovered at (139%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCSD 160-602829/3-A)

Method 9320_Ra228: Radium-228 batch 602829Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-SGWA-1 (680-230928-1), SCH-AP1-FB-1 (680-230928-2), SCH-SGWA-5 (680-230928-3), SCH-AP1-EB-1 (680-230928-4), SCH-SGWA-3 (680-230928-5), (LCS 160-602829/2-A), (LCSD 160-602829/3-A) and (MB 160-602829/1-A)

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

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

Client Sample ID: SCH-SGWA-1

Lab Sample ID: 680-230928-1

Date Collected: 02/21/23 13:20

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0659	U	0.0783	0.0785	1.00	0.129	pCi/L	03/08/23 11:39	04/03/23 21:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*03/08/23 11:39*	*04/03/23 21:43*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0570	U	0.273	0.273	1.00	0.530	pCi/L	03/08/23 12:03	03/22/23 12:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:37*	*1*
Y Carrier	*81.5*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:37*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00883	U	0.284	0.284	5.00	0.530	pCi/L		04/05/23 12:45	1

Client Sample ID: SCH-AP1-FB-1

Lab Sample ID: 680-230928-2

Date Collected: 02/21/23 16:20

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0337	U	0.0598	0.0599	1.00	0.132	pCi/L	03/08/23 11:39	04/03/23 21:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*03/08/23 11:39*	*04/03/23 21:43*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.222	U	0.277	0.278	1.00	0.460	pCi/L	03/08/23 12:03	03/22/23 12:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:37*	*1*
Y Carrier	*81.1*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:37*	*1*

Client Sample ID: SCH-AP1-FB-1

Lab Sample ID: 680-230928-2

Date Collected: 02/21/23 16:20

Matrix: Water

Date Received: 02/23/23 14:49

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.188	U	0.283	0.284	5.00	0.460	pCi/L		04/05/23 12:45	1

Client Sample ID: SCH-SGWA-5

Lab Sample ID: 680-230928-3

Date Collected: 02/21/23 15:18

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0562	U	0.0556	0.0559	1.00	0.0852	pCi/L	03/08/23 11:39	04/04/23 19:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*03/08/23 11:39*	*04/04/23 19:55*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.519	U	0.421	0.424	1.00	0.659	pCi/L	03/08/23 12:03	03/22/23 12:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:37*	*1*
Y Carrier	*84.1*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:37*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.575	U	0.425	0.428	5.00	0.659	pCi/L		04/05/23 12:45	1

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-230928-4

Date Collected: 02/21/23 16:08

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00402	U	0.0628	0.0628	1.00	0.122	pCi/L	03/08/23 11:39	04/04/23 19:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*03/08/23 11:39*	*04/04/23 19:55*	*1*

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-230928-4

Date Collected: 02/21/23 16:08

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.159	U	0.268	0.269	1.00	0.462	pCi/L	03/08/23 12:03	03/22/23 12:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:38*	*1*
Y Carrier	*87.9*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:38*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.163	U	0.275	0.276	5.00	0.462	pCi/L		04/05/23 12:45	1

Client Sample ID: SCH-SGWA-3

Lab Sample ID: 680-230928-5

Date Collected: 02/21/23 16:02

Matrix: Water

Date Received: 02/23/23 14:49

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0143	U	0.0476	0.0476	1.00	0.104	pCi/L	03/08/23 11:39	04/04/23 19:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*03/08/23 11:39*	*04/04/23 19:55*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.338	U	0.393	0.394	1.00	0.646	pCi/L	03/08/23 12:03	03/22/23 12:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:38*	*1*
Y Carrier	*86.4*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:38*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.324	U	0.396	0.397	5.00	0.646	pCi/L		04/05/23 12:45	1

Tracer/Carrier Summary

Client: Southern Company
Job ID: 680-230928-2
Project/Site: GPC Plant Scherer - Ash Pond

Method: 9315 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-230928-1	SCH-SGWA-1	94.9
680-230928-2	SCH-AP1-FB-1	96.0
680-230928-3	SCH-SGWA-5	85.3
680-230928-4	SCH-AP1-EB-1	91.0
680-230928-5	SCH-SGWA-3	92.1
LCS 160-602828/2-A	Lab Control Sample	85.3
LCSD 160-602828/3-A	Lab Control Sample Dup	80.8
MB 160-602828/1-A	Method Blank	85.9

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-230928-1	SCH-SGWA-1	94.9	81.5
680-230928-2	SCH-AP1-FB-1	96.0	81.1
680-230928-3	SCH-SGWA-5	85.3	84.1
680-230928-4	SCH-AP1-EB-1	91.0	87.9
680-230928-5	SCH-SGWA-3	92.1	86.4
LCS 160-602829/2-A	Lab Control Sample	85.3	85.2
LCSD 160-602829/3-A	Lab Control Sample Dup	80.8	81.1
MB 160-602829/1-A	Method Blank	85.9	84.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-602828/1-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602828

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03913	U	0.0688	0.0689	1.00	0.121	pCi/L	03/08/23 11:39	04/03/23 21:42	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*30 - 110*	*03/08/23 11:39*	*04/03/23 21:42*	*1*

Lab Sample ID: LCS 160-602828/2-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602828

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.96		1.23	1.00	0.0945	pCi/L	106	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*85.3*		*30 - 110*

Lab Sample ID: LCSD 160-602828/3-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602828

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	12.07		1.24	1.00	0.0956	pCi/L	106	75 - 125	0.04	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*80.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602829/1-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602829

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4492	U	0.362	0.365	1.00	0.562	pCi/L	03/08/23 12:03	03/22/23 12:35	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:35*	*1*
Y Carrier	*84.1*		*30 - 110*	*03/08/23 12:03*	*03/22/23 12:35*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-602829/2-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602829

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.10	9.897		1.37	1.00	0.649	pCi/L	122	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*85.3*		*30 - 110*
Y Carrier	*85.2*		*30 - 110*

Lab Sample ID: LCSD 160-602829/3-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602829

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.10	11.22		1.52	1.00	0.594	pCi/L	139	75 - 125	0.46	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*80.8*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

QC Association Summary

Client: Southern Company
Job ID: 680-230928-2
Project/Site: GPC Plant Scherer - Ash Pond

Rad

Prep Batch: 602828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	PrecSep-21	
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	PrecSep-21	
680-230928-3	SCH-SGWA-5	Total/NA	Water	PrecSep-21	
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	PrecSep-21	
680-230928-5	SCH-SGWA-3	Total/NA	Water	PrecSep-21	
MB 160-602828/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602828/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-602828/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 602829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230928-1	SCH-SGWA-1	Total/NA	Water	PrecSep_0	
680-230928-2	SCH-AP1-FB-1	Total/NA	Water	PrecSep_0	
680-230928-3	SCH-SGWA-5	Total/NA	Water	PrecSep_0	
680-230928-4	SCH-AP1-EB-1	Total/NA	Water	PrecSep_0	
680-230928-5	SCH-SGWA-3	Total/NA	Water	PrecSep_0	
MB 160-602829/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602829/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-602829/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-2

Client Sample ID: SCH-SGWA-1

Lab Sample ID: 680-230928-1

Date Collected: 02/21/23 13:20

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1009.22 mL	1.0 g	602828	03/08/23 11:39	DJP	EET SL
Total/NA	Analysis	9315		1			605835	04/03/23 21:43	EMH	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1009.22 mL	1.0 g	602829	03/08/23 12:03	DJP	EET SL
Total/NA	Analysis	9320		1			604715	03/22/23 12:37	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606185	04/05/23 12:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FB-1

Lab Sample ID: 680-230928-2

Date Collected: 02/21/23 16:20

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			990.61 mL	1.0 g	602828	03/08/23 11:39	DJP	EET SL
Total/NA	Analysis	9315		1			605835	04/03/23 21:43	EMH	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			990.61 mL	1.0 g	602829	03/08/23 12:03	DJP	EET SL
Total/NA	Analysis	9320		1			604715	03/22/23 12:37	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606185	04/05/23 12:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWA-5

Lab Sample ID: 680-230928-3

Date Collected: 02/21/23 15:18

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.50 mL	1.0 g	602828	03/08/23 11:39	DJP	EET SL
Total/NA	Analysis	9315		1			606125	04/04/23 19:55	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			996.50 mL	1.0 g	602829	03/08/23 12:03	DJP	EET SL
Total/NA	Analysis	9320		1			604715	03/22/23 12:37	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606185	04/05/23 12:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-230928-4

Date Collected: 02/21/23 16:08

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.71 mL	1.0 g	602828	03/08/23 11:39	DJP	EET SL
Total/NA	Analysis	9315		1			606125	04/04/23 19:55	FLC	EET SL
	Instrument ID: GFPCRED									

Lab Chronicle

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-2

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-230928-4

Date Collected: 02/21/23 16:08

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			995.71 mL	1.0 g	602829	03/08/23 12:03	DJP	EET SL
Total/NA	Analysis	9320		1			604715	03/22/23 12:38	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606185	04/05/23 12:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWA-3

Lab Sample ID: 680-230928-5

Date Collected: 02/21/23 16:02

Matrix: Water

Date Received: 02/23/23 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.85 mL	1.0 g	602828	03/08/23 11:39	DJP	EET SL
Total/NA	Analysis	9315		1			606125	04/04/23 19:55	FLC	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1002.85 mL	1.0 g	602829	03/08/23 12:03	DJP	EET SL
Total/NA	Analysis	9320		1			604715	03/22/23 12:38	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			606185	04/05/23 12:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-230928-2
Project/Site: GPC Plant Scherer - Ash Pond

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

Method Summary

Client: Southern Company
Project/Site: GPC Plant Scherer - Ash Pond

Job ID: 680-230928-2

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

Protocol References:

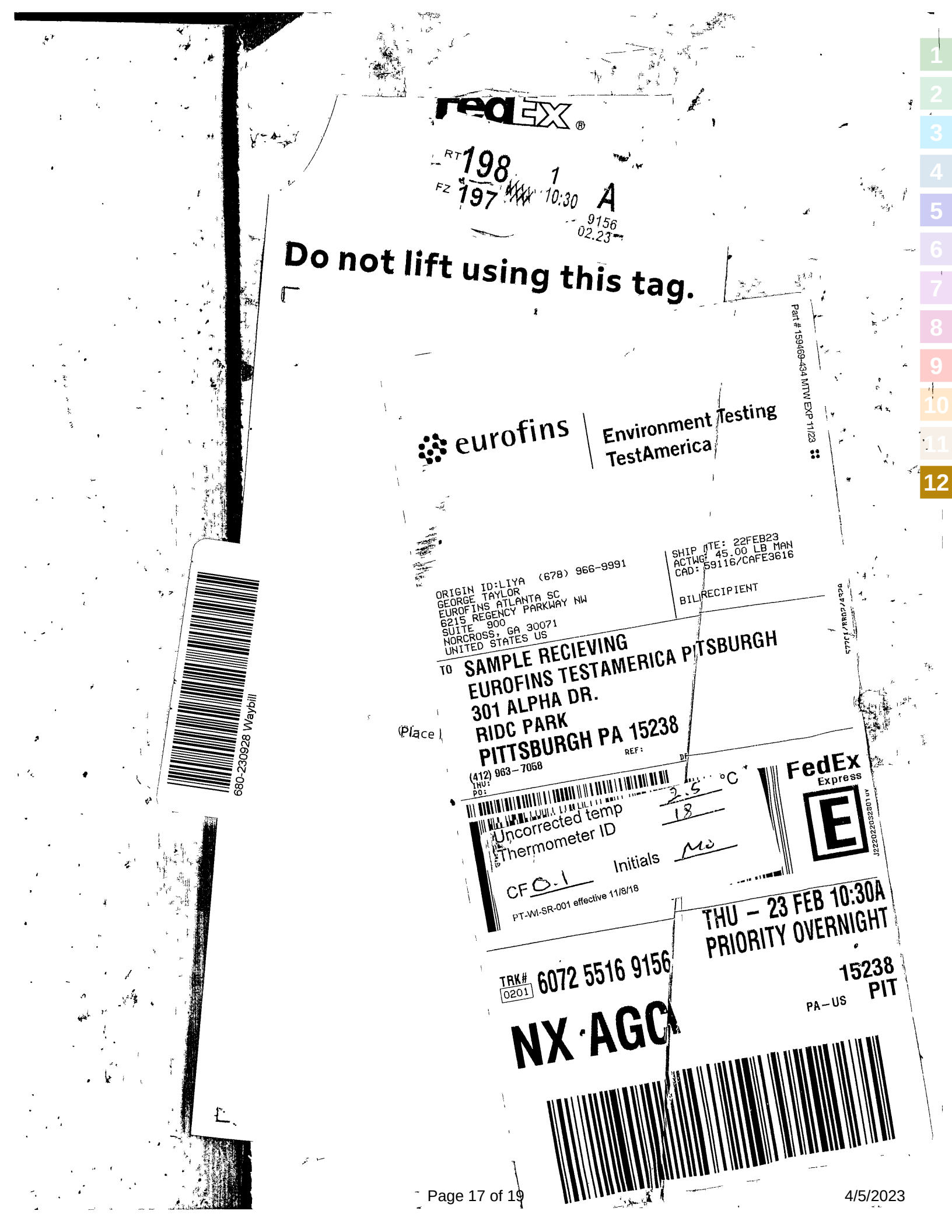
None = None

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

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

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566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eurofins
Environment Testing
TestAmerica
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 22FEB23
ACTWGT: 45.00 LB MAN
CAD: 59116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
Uncorrected temp 2.5 °C
Thermometer ID 18
Initials MD
CF 0.1
PT-WI-SR-001 effective 11/8/18
FedEx Express
THU - 23 FEB 10:30A
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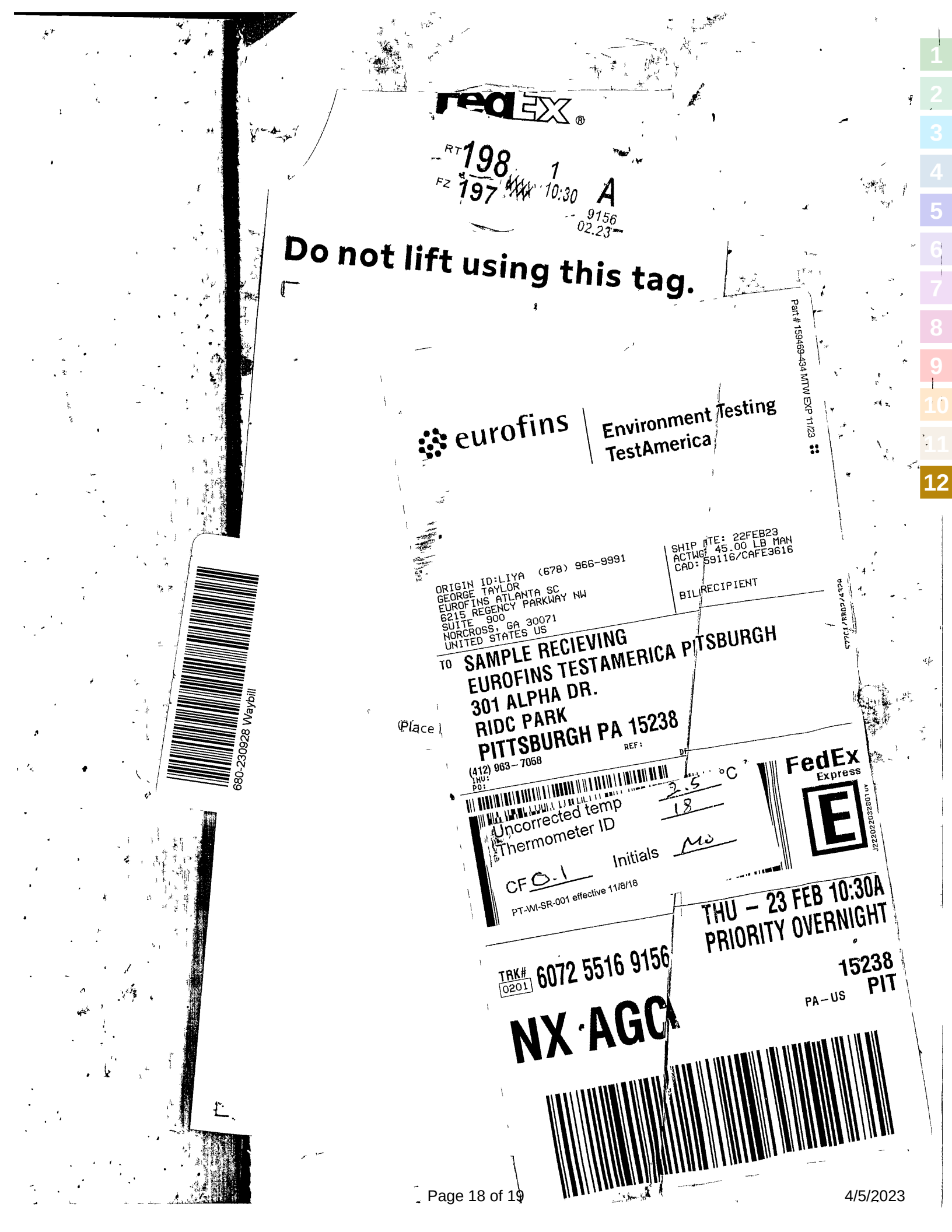
15238
PIT
PA-US
NX AGC
680-230928 Waybill
(Place)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Do not lift using this tag.
Part # 159469-434 MTW EXP 11/23
eurofins | Environment Testing TestAmerica
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 22FEB23
ACTWGT: 45.00 LB MAN
CAD: 59116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
Uncorrected temp 2.5 °C
Thermometer ID 18
Initials MS
CF 0.1
PT-WI-SR-001 effective 11/8/18
FedEx Express
THU - 23 FEB 10:30A
PRIORITY OVERNIGHT
TRK# 0201 6072 5516 9156
15238
PIT
PA-US
NX AGC
680-230928 Waybill
Place

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412 963 7058 fax 412.963 2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: Courier Now

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/22/23	COC No
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: MIKE	1 of 1 COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client:
JAbraham@southernco com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Ash Pond	☐ 1 week			
Site: Georgia	☐ 2 days			Job / SDG No
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes
SCH-SGWA-1	2/21/2023	13 20	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 28, Fe2= 0 5, Fe2 collected 2/21/2023 at 13 30
SCH-AP1-FB-1	2/21/2023	16 20	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-SGWA-5	2/21/2023	15 18	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 60, Fe2= 0 0, Fe2 collected 2/21/2023 at 15.23
SCH-AP1-EB-1	2/21/2023	16 08	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-SGWA-3	2/21/2023	16 02	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 82, Fe2= 0 0, Fe2 collected 2/21/2023 at 16.07
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4						

TO ST. LOUIS
Sample Specific Notes

680-230928 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No 05:30 | Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Duane Fulton	WSP	02/22/23	Mike Gremmick	Courier Now	2/22 8:30 AM
Mike Gremmick	Courier Now	2/22/23 1010	Michael Mastard	Company	2-22-23 10:10
Michael Mastard	Company	2-2-23 10:10	Received in Laboratory by	Company	Date/Time 2-23-23 0940

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/20/2023 8:50:07 PM Revision 1

JOB DESCRIPTION

CCR Plant Scherer - Ash Pond

JOB NUMBER

680-231076-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
4/20/2023 8:50:07 PM
Revision 1

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-231076-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-231076-1
Project/Site: CCR Plant Scherer - Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231076-1	SCH-SGWC-12	Water	02/23/23 10:35	02/25/23 09:00
680-231076-2	SCH-SGWC-13	Water	02/23/23 13:10	02/25/23 09:00
680-231076-3	SCH-SGWC-14	Water	02/23/23 10:53	02/25/23 09:00
680-231076-4	SCH-SGWC-15	Water	02/23/23 13:08	02/25/23 09:00
680-231076-5	SCH-SGWC-16	Water	02/23/23 15:24	02/25/23 09:00
680-231076-6	SCH-SGWC-21	Water	02/23/23 09:00	02/25/23 09:00
680-231076-7	SCH-SGWC-22	Water	02/23/23 12:37	02/25/23 09:00
680-231076-8	SCH-SGWC-23	Water	02/23/23 10:47	02/25/23 09:00
680-231076-9	SCH-SGWA-24	Water	02/23/23 11:10	02/25/23 09:00
680-231076-10	SCH-SGWA-25	Water	02/23/23 09:35	02/25/23 09:00
680-231076-11	SCH-AP1-FB-2	Water	02/23/23 12:45	02/25/23 09:00
680-231076-12	SCH-AP1-EB-2	Water	02/23/23 16:25	02/25/23 09:00

Case Narrative

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

Job ID: 680-231076-1

Job ID: 680-231076-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231076-1

Revision 1
The report being provided is a revision of the original report sent on 4/15/2023. The report (revision 1) is being revised in order to correct the Client Sample IDs of SCH-SGWC-24 & SCH-SGWC--25 to SCH-SGWA-24 & SCH-SGWA--25.

Receipt
The samples were received on 2/25/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.5°C, 2.0°C and 3.4°C

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

Metals
Method 6020B: The post digestion spike % recovery for barium associated with batch 180-430208 was outside of control limits. The associated sample is: SCH-SGWC-22 (680-231076-7).

Method 6020B: More than 10 samples were injected between CCV/CCB pairs. The following samples were in this batch: SCH-SGWC-14 (680-231076-3), SCH-SGWC-15 (680-231076-4) and SCH-SGWC-21 (680-231076-6)

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: (180-152511-E-1-J ^2), (180-152511-E-1-K MS ^2), (180-152511-E-1-L MSD ^2), (180-152511-E-1-J PDS ^2) and (180-152511-E-1-J SD ^10). Elevated reporting limits (RLs) are provided.

Method 6020B: A serial dilution for this sample was not analyzed with the batch due to insufficient digestion volume.SCH-SGWC-22 (680-231076-7)

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-428559 and analytical batch 180-428715 were below the control limits for mercury, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

General Chemistry
Method 2540C_Calcd: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. SCH-AP1-EB-2 (680-231076-12)

Method 9034_Calc: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: samples received with headspace

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

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-12

Date Collected: 02/23/23 10:35
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-1

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.6**		1.0	0.71	mg/L			03/04/23 21:07	1
Fluoride	**0.089**	**J**	0.10	0.026	mg/L			03/04/23 21:07	1
Sulfate	**57**		1.0	0.76	mg/L			03/04/23 21:07	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:27	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:27	1
Barium	**0.058**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:27	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:27	1
Boron	**0.079**	**J B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 12:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:27	1
Calcium	**21**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:27	1
Cobalt	**0.0014**	**J**	0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:27	1
Iron	**1.3**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:27	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:27	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:27	1
Magnesium	**12**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:27	1
Manganese	**0.56**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:27	1
Potassium	**0.66**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:27	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:27	1
Sodium	**16**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:27	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:27	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	F1	0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 15:50	1
Total Dissolved Solids (SM 2540C)	**220**		10	10	mg/L			03/01/23 14:28	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**83**		5.0	5.0	mg/L			02/27/23 16:53	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**83**		5.0	5.0	mg/L			02/27/23 16:53	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 16:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.04**				SU			02/23/23 10:35	1
Ferrous Iron	**1.5**				mg/L			02/23/23 10:35	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-13

Date Collected: 02/23/23 13:10
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-2

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		1.0	0.71	mg/L			03/05/23 03:16	1
Fluoride	**0.077**	**J**	0.10	0.026	mg/L			03/05/23 03:16	1
Sulfate	**96**		1.0	0.76	mg/L			03/05/23 03:16	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:31	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:31	1
Barium	**0.035**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:31	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:31	1
Boron	**0.69**	**B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 12:40	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:31	1
Calcium	**20**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:31	1
Cobalt	**0.0016**	**J**	0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:31	1
Iron	**0.33**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:31	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:31	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:31	1
Magnesium	**7.7**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:31	1
Manganese	**0.093**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:31	1
Potassium	**1.1**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:31	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:31	1
Sodium	**26**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:31	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:31	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 15:54	1
Total Dissolved Solids (SM 2540C)	**230**		10	10	mg/L			03/01/23 14:28	1
Ferric Iron (SM 3500)	**33**		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**24**		5.0	5.0	mg/L			02/27/23 17:19	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**24**		5.0	5.0	mg/L			02/27/23 17:19	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.94**				SU			02/23/23 13:10	1
Ferrous Iron	**0.0**				mg/L			02/23/23 13:10	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-14

Date Collected: 02/23/23 10:53
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-3

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		1.0	0.71	mg/L			03/04/23 21:25	1
Fluoride	**0.068**	**J**	0.10	0.026	mg/L			03/04/23 21:25	1
Sulfate	**210**		1.0	0.76	mg/L			03/04/23 21:25	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:34	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:34	1
Barium	**0.038**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:34	1
Boron	**1.7**		0.080	0.060	mg/L		03/30/23 11:14	03/31/23 16:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:34	1
Calcium	**37**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:34	1
Cobalt	**0.0047**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:34	1
Iron	**0.086**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:34	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:34	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:34	1
Magnesium	**18**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:34	1
Manganese	**0.16**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:34	1
Potassium	**1.7**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:34	1
Sodium	**24**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:34	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 15:56	1
Total Dissolved Solids (SM 2540C)	**390**		10	10	mg/L			03/01/23 14:28	1
Ferric Iron (SM 3500)	**0.086**		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**20**		5.0	5.0	mg/L			02/27/23 17:28	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**20**		5.0	5.0	mg/L			02/27/23 17:28	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.72**				SU			02/23/23 10:53	1
Ferrous Iron	**0.0**				mg/L			02/23/23 10:53	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-15

Date Collected: 02/23/23 13:08
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-4

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		1.0	0.71	mg/L			03/04/23 21:44	1
Fluoride	**0.11**		0.10	0.026	mg/L			03/04/23 21:44	1
Sulfate	**190**		1.0	0.76	mg/L			03/04/23 21:44	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:38	1
Arsenic	**0.0012**		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:38	1
Barium	**0.023**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:38	1
Beryllium	**0.00038**	**J**	0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:38	1
Boron	**2.2**		0.080	0.060	mg/L		03/30/23 11:14	03/31/23 15:16	1
Cadmium	**0.00023**	**J**	0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:38	1
Calcium	**14**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:38	1
Chromium	**0.029**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:38	1
Cobalt	**0.23**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:38	1
Iron	**0.028**	**J**	0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:38	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:38	1
Lithium	**0.0022**	**J**	0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:38	1
Magnesium	**13**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:38	1
Manganese	**3.1**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:38	1
Potassium	**4.3**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:38	1
Sodium	**41**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:38	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 15:57	1
Total Dissolved Solids (SM 2540C)	**300**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	**0.028**	**J**	0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:33	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:33	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**4.59**				SU			02/23/23 13:08	1
Ferrous Iron	**0.0**				mg/L			02/23/23 13:08	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-16

Date Collected: 02/23/23 15:24
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-5

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.8**		1.0	0.71	mg/L			03/04/23 22:02	1
Fluoride	**0.045**	**J**	0.10	0.026	mg/L			03/04/23 22:02	1
Sulfate	**55**		1.0	0.76	mg/L			03/04/23 22:02	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:42	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:42	1
Barium	**0.035**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:42	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:42	1
Boron	**0.87**	**B**	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 12:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:42	1
Calcium	**1.3**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:42	1
Chromium	**0.012**		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:42	1
Cobalt	**0.0056**		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:42	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:42	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:42	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:42	1
Magnesium	**0.75**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:42	1
Manganese	**0.031**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:42	1
Potassium	**0.61**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:42	1
Selenium	**0.00093**	**J**	0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:42	1
Sodium	**30**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:42	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:42	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 15:58	1
Total Dissolved Solids (SM 2540C)	**130**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**7.7**		5.0	5.0	mg/L			02/27/23 17:37	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**7.7**		5.0	5.0	mg/L			02/27/23 17:37	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.13**				SU			02/23/23 15:24	1
Ferrous Iron	**0.0**				mg/L			02/23/23 15:24	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-21

Date Collected: 02/23/23 09:00
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-6

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.9**		1.0	0.71	mg/L			03/04/23 22:20	1
Fluoride	**0.087**	**J**	0.10	0.026	mg/L			03/04/23 22:20	1
Sulfate	**120**		1.0	0.76	mg/L			03/04/23 22:20	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 16:45	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 16:45	1
Barium	**0.10**		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 16:45	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 16:45	1
Boron	**1.3**		0.080	0.060	mg/L		03/30/23 11:14	03/31/23 16:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 16:45	1
Calcium	**34**		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 16:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 16:45	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 16:45	1
Iron	**0.053**		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 16:45	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 16:45	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:45	1
Magnesium	**12**		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 16:45	1
Manganese	**0.044**		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 16:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 16:45	1
Potassium	**1.5**		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 16:45	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 16:45	1
Sodium	**55**		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 16:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 16:45	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:00	1
Total Dissolved Solids (SM 2540C)	**350**		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	**0.053**		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**150**		5.0	5.0	mg/L			02/27/23 17:41	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**150**		5.0	5.0	mg/L			02/27/23 17:41	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.19**				SU			02/23/23 09:00	1
Ferrous Iron	**0.0**				mg/L			02/23/23 09:00	1

Client Sample ID: SCH-SGWC-22

Lab Sample ID: 680-231076-7

Date Collected: 02/23/23 12:37

Matrix: Water

Date Received: 02/25/23 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			03/05/23 00:48	1
Fluoride	0.075	J	0.10	0.026	mg/L			03/05/23 00:48	1
Sulfate	120		1.0	0.76	mg/L			03/05/23 00:48	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:20	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:20	1
Barium	0.082		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:20	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:20	1
Boron	0.63	^+ ^6+	0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:20	1
Calcium	34		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:20	1
Cobalt	0.00069	J	0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:20	1
Iron	0.22		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:20	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:20	1
Lithium	0.0019	J	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:20	1
Magnesium	16		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:20	1
Manganese	0.15		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:20	1
Potassium	2.9		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:20	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:20	1
Sodium	20		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:20	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:20	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	100		3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:01	1
Total Dissolved Solids (SM 2540C)	260		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	0.22		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	57		5.0	5.0	mg/L			02/27/23 17:46	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	57		5.0	5.0	mg/L			02/27/23 17:46	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 17:46	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.72				SU			02/23/23 12:37	1
Ferrous Iron	0.0				mg/L			02/23/23 12:37	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-23

Date Collected: 02/23/23 10:47
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-8

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			03/05/23 01:07	1
Fluoride	0.089	J	0.10	0.026	mg/L			03/05/23 01:07	1
Sulfate	64		1.0	0.76	mg/L			03/05/23 01:07	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:39	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:39	1
Barium	0.060		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:39	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:39	1
Boron	0.81		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:39	1
Calcium	22		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:39	1
Chromium	0.0016	J	0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:39	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:39	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:39	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:39	1
Lithium	0.0042	J	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:39	1
Magnesium	10		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:39	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:39	1
Molybdenum	0.00062	J	0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:39	1
Potassium	1.6		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:39	1
Selenium	0.00075	J	0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:39	1
Sodium	23		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:39	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:39	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:05	1
Total Dissolved Solids (SM 2540C)	210		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	<0.0061		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	68		5.0	5.0	mg/L			02/27/23 18:00	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	68		5.0	5.0	mg/L			02/27/23 18:00	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.00				SU			02/23/23 10:47	1
Ferrous Iron	0.0				mg/L			02/23/23 10:47	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWA-24

Date Collected: 02/23/23 11:10
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-9

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.71	mg/L			03/05/23 01:25	1
Fluoride	0.074	J	0.10	0.026	mg/L			03/05/23 01:25	1
Sulfate	1.6		1.0	0.76	mg/L			03/05/23 01:25	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:42	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:42	1
Barium	0.028		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:42	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:42	1
Boron	0.18		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:42	1
Calcium	17		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:42	1
Chromium	0.0058		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:42	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:42	1
Iron	0.16		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:42	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:42	1
Lithium	0.0022	J	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:42	1
Magnesium	8.2		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:42	1
Manganese	0.015		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:42	1
Potassium	1.0		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:42	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:42	1
Sodium	6.9		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:42	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:42	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:07	1
Total Dissolved Solids (SM 2540C)	130		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	0.16		0.050	0.0061	mg/L			03/22/23 08:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	110		5.0	5.0	mg/L			02/27/23 18:10	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	110		5.0	5.0	mg/L			02/27/23 18:10	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.33				SU			02/23/23 11:10	1
Ferrous Iron	0.0				mg/L			02/23/23 11:10	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWA-25

Date Collected: 02/23/23 09:35
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-10

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			03/05/23 01:44	1
Fluoride	0.075	J	0.10	0.026	mg/L			03/05/23 01:44	1
Sulfate	1.3		1.0	0.76	mg/L			03/05/23 01:44	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:46	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:46	1
Barium	0.026		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:46	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:46	1
Boron	0.10		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:46	1
Calcium	9.6		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:46	1
Chromium	0.0025		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:46	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:46	1
Iron	0.098		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:46	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:46	1
Lithium	0.0020	J	0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:46	1
Magnesium	6.4		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:46	1
Manganese	0.0087		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:46	1
Potassium	0.69		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:46	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:46	1
Sodium	4.4		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:46	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:08	1
Total Dissolved Solids (SM 2540C)	90		10	10	mg/L			03/02/23 17:58	1
Ferric Iron (SM 3500)	0.098		0.050	0.0061	mg/L			03/29/23 07:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	64		5.0	5.0	mg/L			02/27/23 18:15	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	64		5.0	5.0	mg/L			02/27/23 18:15	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.04				SU			02/23/23 09:35	1
Ferrous Iron	0.0				mg/L			02/23/23 09:35	1

Client Sample ID: SCH-AP1-FB-2

Lab Sample ID: 680-231076-11

Date Collected: 02/23/23 12:45

Matrix: Water

Date Received: 02/25/23 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/23 04:11	1
Fluoride	**0.028**	**J F1**	0.10	0.026	mg/L			03/05/23 04:11	1
Sulfate	**1.2**		1.0	0.76	mg/L			03/05/23 04:11	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:57	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:57	1
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:57	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:57	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:57	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:57	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:57	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:57	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:57	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:57	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:57	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:09	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/02/23 17:58	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:20	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:20	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:20	1

Client Sample ID: SCH-AP1-EB-2

Lab Sample ID: 680-231076-12

Date Collected: 02/23/23 16:25

Matrix: Water

Date Received: 02/25/23 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/23 02:02	1
Fluoride	**0.052**	**J**	0.10	0.026	mg/L			03/05/23 02:02	1
Sulfate	**1.1**		1.0	0.76	mg/L			03/05/23 02:02	1

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

Job ID: 680-231076-1

Client Sample ID: SCH-AP1-EB-2

Date Collected: 02/23/23 16:25
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-12

Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 16:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 16:19	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 16:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 16:19	1
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:48	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 16:19	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 16:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 16:19	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 16:19	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 16:19	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 16:19	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:19	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 16:19	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 16:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 16:19	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 16:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 16:19	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 16:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 16:19	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1	cn	3.0	2.1	mg/L		02/28/23 09:29	02/28/23 16:11	1
Total Dissolved Solids (SM 2540C)	<10	H	10	10	mg/L			03/10/23 16:34	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:23	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:23	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			02/27/23 18:23	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-428116/36
Matrix: Water
Analysis Batch: 428116

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/04/23 22:39	1
Fluoride	<0.026		0.10	0.026	mg/L			03/04/23 22:39	1
Sulfate	<0.76		1.0	0.76	mg/L			03/04/23 22:39	1

Lab Sample ID: MB 180-428116/6
Matrix: Water
Analysis Batch: 428116

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/04/23 11:59	1
Fluoride	<0.026		0.10	0.026	mg/L			03/04/23 11:59	1
Sulfate	<0.76		1.0	0.76	mg/L			03/04/23 11:59	1

Lab Sample ID: LCS 180-428116/37
Matrix: Water
Analysis Batch: 428116

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.75		mg/L		110	90 - 110
Sulfate	50.0	52.4		mg/L		105	90 - 110

Lab Sample ID: LCS 180-428116/7
Matrix: Water
Analysis Batch: 428116

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.9		mg/L		98	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	51.4		mg/L		103	90 - 110

Lab Sample ID: 680-231076-11 MS
Matrix: Water
Analysis Batch: 428116

Client Sample ID: SCH-AP1-FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<0.71		50.0	49.2		mg/L		98	90 - 110
Fluoride	0.028	J F1	2.50	2.82	F1	mg/L		112	90 - 110
Sulfate	1.2		50.0	53.0		mg/L		104	90 - 110

Lab Sample ID: 680-231076-11 MSD
Matrix: Water
Analysis Batch: 428116

Client Sample ID: SCH-AP1-FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<0.71		50.0	49.8		mg/L		100	90 - 110	1	20
Fluoride	0.028	J F1	2.50	2.86	F1	mg/L		113	90 - 110	1	20
Sulfate	1.2		50.0	53.0		mg/L		104	90 - 110	0	20

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

Lab Sample ID: MB 180-428062/1-A
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/03/23 12:40	03/04/23 14:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/03/23 12:40	03/04/23 14:41	1
Barium	<0.0031		0.010	0.0031	mg/L		03/03/23 12:40	03/04/23 14:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/03/23 12:40	03/04/23 14:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/23 12:40	03/04/23 14:41	1
Calcium	<0.13		0.50	0.13	mg/L		03/03/23 12:40	03/04/23 14:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/23 12:40	03/04/23 14:41	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/03/23 12:40	03/04/23 14:41	1
Iron	<0.028		0.050	0.028	mg/L		03/03/23 12:40	03/04/23 14:41	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/03/23 12:40	03/04/23 14:41	1
Magnesium	<0.050		0.50	0.050	mg/L		03/03/23 12:40	03/04/23 14:41	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/04/23 14:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/23 12:40	03/04/23 14:41	1
Potassium	<0.16		0.50	0.16	mg/L		03/03/23 12:40	03/04/23 14:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/03/23 12:40	03/04/23 14:41	1
Sodium	<0.18		0.50	0.18	mg/L		03/03/23 12:40	03/04/23 14:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/03/23 12:40	03/04/23 14:41	1

Lab Sample ID: MB 180-428062/1-A
Matrix: Water
Analysis Batch: 428748

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0013		0.0050	0.0013	mg/L		03/03/23 12:40	03/09/23 22:31	1

Lab Sample ID: MB 180-428062/1-A
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0785	J	0.080	0.060	mg/L		03/03/23 12:40	03/25/23 11:23	1

Lab Sample ID: LCS 180-428062/2-A
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.269		mg/L		107	80 - 120
Arsenic	1.00	0.974		mg/L		97	80 - 120
Barium	1.00	0.891		mg/L		89	80 - 120
Beryllium	0.500	0.467		mg/L		93	80 - 120
Cadmium	0.500	0.514		mg/L		103	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Chromium	0.500	0.514		mg/L		103	80 - 120
Cobalt	0.500	0.498		mg/L		100	80 - 120
Iron	5.00	5.13		mg/L		103	80 - 120
Lead	0.500	0.507		mg/L		101	80 - 120
Magnesium	25.0	24.2		mg/L		97	80 - 120
Manganese	0.500	0.492		mg/L		98	80 - 120

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

Lab Sample ID: LCS 180-428062/2-A
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	0.500	0.504		mg/L		101	80 - 120
Potassium	25.0	24.4		mg/L		97	80 - 120
Selenium	1.00	0.945		mg/L		94	80 - 120
Sodium	25.0	25.6		mg/L		102	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCS 180-428062/2-A
Matrix: Water
Analysis Batch: 428748

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: LCS 180-428062/2-A
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.42		mg/L		114	80 - 120

Lab Sample ID: 680-231043-E-3-B MS
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.251		mg/L		101	75 - 125
Arsenic	<0.00028		1.00	0.916		mg/L		92	75 - 125
Barium	0.12		1.00	0.970		mg/L		85	75 - 125
Beryllium	<0.00027		0.500	0.434		mg/L		87	75 - 125
Cadmium	<0.00022		0.500	0.481		mg/L		96	75 - 125
Calcium	10		25.0	35.1		mg/L		99	75 - 125
Chromium	<0.0015		0.500	0.480		mg/L		96	75 - 125
Cobalt	0.00030	J	0.500	0.465		mg/L		93	75 - 125
Iron	0.23		5.00	5.11		mg/L		98	75 - 125
Lead	<0.00038		0.500	0.472		mg/L		94	75 - 125
Magnesium	4.5		25.0	27.5		mg/L		92	75 - 125
Manganese	0.053		0.500	0.510		mg/L		92	75 - 125
Molybdenum	<0.00061		0.500	0.473		mg/L		95	75 - 125
Potassium	0.87		25.0	24.0		mg/L		92	75 - 125
Selenium	<0.00074		1.00	0.879		mg/L		88	75 - 125
Sodium	11		25.0	35.3		mg/L		96	75 - 125
Thallium	<0.00047		1.00	0.952		mg/L		95	75 - 125

Lab Sample ID: 680-231043-E-3-B MS
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<0.060		1.25	1.39		mg/L		111	75 - 125

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

Lab Sample ID: 680-231043-E-3-C MSD
Matrix: Water
Analysis Batch: 428454

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.257		mg/L		103	75 - 125	2	20
Arsenic	<0.00028		1.00	0.920		mg/L		92	75 - 125	0	20
Barium	0.12		1.00	0.979		mg/L		86	75 - 125	1	20
Beryllium	<0.00027		0.500	0.443		mg/L		89	75 - 125	2	20
Cadmium	<0.00022		0.500	0.492		mg/L		98	75 - 125	2	20
Calcium	10		25.0	35.6		mg/L		101	75 - 125	1	20
Chromium	<0.0015		0.500	0.495		mg/L		99	75 - 125	3	20
Cobalt	0.00030	J	0.500	0.468		mg/L		94	75 - 125	1	20
Iron	0.23		5.00	5.04		mg/L		96	75 - 125	1	20
Lead	<0.00038		0.500	0.483		mg/L		97	75 - 125	2	20
Magnesium	4.5		25.0	27.6		mg/L		92	75 - 125	0	20
Manganese	0.053		0.500	0.524		mg/L		94	75 - 125	3	20
Molybdenum	<0.00061		0.500	0.480		mg/L		96	75 - 125	1	20
Potassium	0.87		25.0	24.1		mg/L		93	75 - 125	1	20
Selenium	<0.00074		1.00	0.881		mg/L		88	75 - 125	0	20
Sodium	11		25.0	35.2		mg/L		95	75 - 125	0	20
Thallium	<0.00047		1.00	0.975		mg/L		97	75 - 125	2	20

Lab Sample ID: 680-231043-E-3-C MSD
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.060		1.25	1.43		mg/L		114	75 - 125	2	20

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 09:05	03/22/23 15:05	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 09:05	03/22/23 15:05	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 09:05	03/22/23 15:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 09:05	03/22/23 15:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 09:05	03/22/23 15:05	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 09:05	03/22/23 15:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 09:05	03/22/23 15:05	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 09:05	03/22/23 15:05	1
Iron	<0.028		0.050	0.028	mg/L		03/08/23 09:05	03/22/23 15:05	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 09:05	03/22/23 15:05	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:05	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 09:05	03/22/23 15:05	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/23 09:05	03/22/23 15:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 09:05	03/22/23 15:05	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 09:05	03/22/23 15:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 09:05	03/22/23 15:05	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/23 09:05	03/22/23 15:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 09:05	03/22/23 15:05	1

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

Lab Sample ID: MB 180-428412/1-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/08/23 09:05	04/07/23 12:03	1

Lab Sample ID: LCS 180-428412/2-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.275		mg/L		110	80 - 120
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.488		mg/L		98	80 - 120
Cadmium	0.500	0.516		mg/L		103	80 - 120
Calcium	25.0	28.0		mg/L		112	80 - 120
Chromium	0.500	0.523		mg/L		105	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Iron	5.00	5.22		mg/L		104	80 - 120
Lead	0.500	0.509		mg/L		102	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Magnesium	25.0	25.7		mg/L		103	80 - 120
Manganese	0.500	0.497		mg/L		99	80 - 120
Molybdenum	0.500	0.526		mg/L		105	80 - 120
Potassium	25.0	26.0		mg/L		104	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Sodium	25.0	26.2		mg/L		105	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LCS 180-428412/2-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.27		mg/L		102	80 - 120

Lab Sample ID: 680-231076-7 MS
Matrix: Water
Analysis Batch: 430208

Client Sample ID: SCH-SGWC-22
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.269		mg/L		108	75 - 125
Arsenic	<0.00028		1.00	0.963		mg/L		96	75 - 125
Barium	0.082		1.00	1.07		mg/L		99	75 - 125
Beryllium	<0.00027		0.500	0.465		mg/L		93	75 - 125
Cadmium	<0.00022		0.500	0.499		mg/L		100	75 - 125
Calcium	34		25.0	60.1		mg/L		103	75 - 125
Chromium	<0.0015		0.500	0.499		mg/L		100	75 - 125
Cobalt	0.00069	J	0.500	0.476		mg/L		95	75 - 125
Iron	0.22		5.00	5.30		mg/L		102	75 - 125
Lead	<0.00038		0.500	0.493		mg/L		99	75 - 125
Lithium	0.0019	J	0.500	0.469		mg/L		93	75 - 125

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

Lab Sample ID: 680-231076-7 MS
Matrix: Water
Analysis Batch: 430208

Client Sample ID: SCH-SGWC-22
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	16		25.0	39.8		mg/L		97	75 - 125
Manganese	0.15		0.500	0.614		mg/L		94	75 - 125
Molybdenum	<0.00061		0.500	0.506		mg/L		101	75 - 125
Potassium	2.9		25.0	27.6		mg/L		99	75 - 125
Selenium	<0.00074		1.00	0.996		mg/L		100	75 - 125
Sodium	20		25.0	44.2		mg/L		95	75 - 125
Thallium	<0.00047		1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 680-231076-7 MS
Matrix: Water
Analysis Batch: 431774

Client Sample ID: SCH-SGWC-22
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.63	^+ ^6+	1.25	1.87		mg/L		100	75 - 125

Lab Sample ID: 680-231076-7 MSD
Matrix: Water
Analysis Batch: 430208

Client Sample ID: SCH-SGWC-22
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.266		mg/L		107	75 - 125	1	20
Arsenic	<0.00028		1.00	0.962		mg/L		96	75 - 125	0	20
Barium	0.082		1.00	1.05		mg/L		97	75 - 125	2	20
Beryllium	<0.00027		0.500	0.463		mg/L		93	75 - 125	0	20
Cadmium	<0.00022		0.500	0.494		mg/L		99	75 - 125	1	20
Calcium	34		25.0	57.7		mg/L		93	75 - 125	4	20
Chromium	<0.0015		0.500	0.498		mg/L		100	75 - 125	0	20
Cobalt	0.00069	J	0.500	0.474		mg/L		95	75 - 125	0	20
Iron	0.22		5.00	5.17		mg/L		99	75 - 125	3	20
Lead	<0.00038		0.500	0.488		mg/L		98	75 - 125	1	20
Lithium	0.0019	J	0.500	0.467		mg/L		93	75 - 125	0	20
Magnesium	16		25.0	38.8		mg/L		93	75 - 125	3	20
Manganese	0.15		0.500	0.603		mg/L		91	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.508		mg/L		102	75 - 125	0	20
Potassium	2.9		25.0	27.2		mg/L		97	75 - 125	1	20
Selenium	<0.00074		1.00	0.989		mg/L		99	75 - 125	1	20
Sodium	20		25.0	42.6		mg/L		89	75 - 125	4	20
Thallium	<0.00047		1.00	1.01		mg/L		101	75 - 125	2	20

Lab Sample ID: 680-231076-7 MSD
Matrix: Water
Analysis Batch: 431774

Client Sample ID: SCH-SGWC-22
Prep Type: Total Recoverable
Prep Batch: 428412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.63	^+ ^6+	1.25	1.89		mg/L		101	75 - 125	1	20

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

Lab Sample ID: MB 180-430846/1-A
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/30/23 11:14	03/31/23 13:35	1

Lab Sample ID: LCS 180-430846/2-A
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.21		mg/L		97	80 - 120

Lab Sample ID: 180-152511-E-1-K MS ^2
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	3.3		1.25	4.39		mg/L		84	75 - 125

Lab Sample ID: 180-152511-E-1-L MSD ^2
Matrix: Water
Analysis Batch: 431009

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 430846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	3.3		1.25	4.75		mg/L		113	75 - 125	8	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-428559/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 09:25	03/09/23 13:23	1

Lab Sample ID: LCS 180-428559/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00226		mg/L		90	80 - 120

Lab Sample ID: 680-231076-1 MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: SCH-SGWC-12
Prep Type: Total/NA
Prep Batch: 428559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013	F1	0.00100	0.000648	F1	mg/L		65	75 - 125

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 680-231076-1 MSD — **Client Sample ID: SCH-SGWC-12**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 428715 — **Prep Batch: 428559**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013	F1	0.00100	0.000613	F1	mg/L		61	75 - 125	6	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-427619/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 427674 — **Prep Batch: 427619**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		02/28/23 09:29	02/28/23 15:49	1

Lab Sample ID: LCS 180-427619/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 427674 — **Prep Batch: 427619**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	17.0	16.0		mg/L		94	85 - 115

Lab Sample ID: 680-231076-1 MS — **Client Sample ID: SCH-SGWC-12**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 427674 — **Prep Batch: 427619**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<2.1	cn	17.0	15.8		mg/L		93	75 - 125

Lab Sample ID: 680-231076-1 MSD — **Client Sample ID: SCH-SGWC-12**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 427674 — **Prep Batch: 427619**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<2.1	cn	17.0	15.9		mg/L		93	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-427794/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 427794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/01/23 14:28	1

Lab Sample ID: LCS 180-427794/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 427794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	674		mg/L		101	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-152609-C-2 DU
Matrix: Water
Analysis Batch: 427794

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	<10			<10		mg/L				NC	10

Lab Sample ID: MB 180-427967/1
Matrix: Water
Analysis Batch: 427967

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/02/23 17:58	1

Lab Sample ID: LCS 180-427967/2
Matrix: Water
Analysis Batch: 427967

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			665	656		mg/L		99	85 - 115		

Lab Sample ID: 680-231078-A-4 DU
Matrix: Water
Analysis Batch: 427967

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	490			481		mg/L				0.8	10

Lab Sample ID: 680-231081-A-1 DU
Matrix: Water
Analysis Batch: 427967

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	330			331		mg/L				1	10

Lab Sample ID: MB 180-428853/1
Matrix: Water
Analysis Batch: 428853

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/10/23 16:34	1

Lab Sample ID: LCS 180-428853/2
Matrix: Water
Analysis Batch: 428853

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			665	636		mg/L		96	85 - 115		

Lab Sample ID: 180-152798-B-5 DU
Matrix: Water
Analysis Batch: 428853

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	<10			<10		mg/L				NC	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-427598/29
Matrix: Water
Analysis Batch: 427598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/27/23 15:05	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 15:05	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 15:05	1

Lab Sample ID: MB 180-427598/53
Matrix: Water
Analysis Batch: 427598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/27/23 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 17:15	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/27/23 17:15	1

Lab Sample ID: LCS 180-427598/28
Matrix: Water
Analysis Batch: 427598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	258		mg/L		101	90 - 110

Lab Sample ID: LCS 180-427598/52
Matrix: Water
Analysis Batch: 427598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	259		mg/L		101	90 - 110

Lab Sample ID: LLCS 180-427598/27
Matrix: Water
Analysis Batch: 427598

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	15.9		mg/L		104	75 - 125

Lab Sample ID: LLCS 180-427598/51
Matrix: Water
Analysis Batch: 427598

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	15.7		mg/L		103	75 - 125

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

Job ID: 680-231076-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 680-231076-2 DU
Matrix: Water
Analysis Batch: 427598

Client Sample ID: SCH-SGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	24			25.2		mg/L				6	20
Bicarbonate Alkalinity as CaCO3	24			25.2		mg/L				6	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

Lab Sample ID: 680-231076-8 DU
Matrix: Water
Analysis Batch: 427598

Client Sample ID: SCH-SGWC-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	68			66.8		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	68			66.8		mg/L				2	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

QC Association Summary

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

Job ID: 680-231076-1

HPLC/IC

Analysis Batch: 428116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	EPA 300.0 R2.1	
680-231076-2	SCH-SGWC-13	Total/NA	Water	EPA 300.0 R2.1	
680-231076-3	SCH-SGWC-14	Total/NA	Water	EPA 300.0 R2.1	
680-231076-4	SCH-SGWC-15	Total/NA	Water	EPA 300.0 R2.1	
680-231076-5	SCH-SGWC-16	Total/NA	Water	EPA 300.0 R2.1	
680-231076-6	SCH-SGWC-21	Total/NA	Water	EPA 300.0 R2.1	
680-231076-7	SCH-SGWC-22	Total/NA	Water	EPA 300.0 R2.1	
680-231076-8	SCH-SGWC-23	Total/NA	Water	EPA 300.0 R2.1	
680-231076-9	SCH-SGWA-24	Total/NA	Water	EPA 300.0 R2.1	
680-231076-10	SCH-SGWA-25	Total/NA	Water	EPA 300.0 R2.1	
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	EPA 300.0 R2.1	
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-428116/36	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-428116/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-428116/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-428116/7	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-231076-11 MS	SCH-AP1-FB-2	Total/NA	Water	EPA 300.0 R2.1	
680-231076-11 MSD	SCH-AP1-FB-2	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 428062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total Recoverable	Water	3005A	
680-231076-2	SCH-SGWC-13	Total Recoverable	Water	3005A	
680-231076-3	SCH-SGWC-14	Total Recoverable	Water	3005A	
680-231076-4	SCH-SGWC-15	Total Recoverable	Water	3005A	
680-231076-5	SCH-SGWC-16	Total Recoverable	Water	3005A	
680-231076-6	SCH-SGWC-21	Total Recoverable	Water	3005A	
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-231043-E-3-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-231043-E-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 428412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-7	SCH-SGWC-22	Total Recoverable	Water	3005A	
680-231076-8	SCH-SGWC-23	Total Recoverable	Water	3005A	
680-231076-9	SCH-SGWA-24	Total Recoverable	Water	3005A	
680-231076-10	SCH-SGWA-25	Total Recoverable	Water	3005A	
680-231076-11	SCH-AP1-FB-2	Total Recoverable	Water	3005A	
680-231076-12	SCH-AP1-EB-2	Total Recoverable	Water	3005A	
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-231076-7 MS	SCH-SGWC-22	Total Recoverable	Water	3005A	
680-231076-7 MSD	SCH-SGWC-22	Total Recoverable	Water	3005A	

Analysis Batch: 428454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total Recoverable	Water	EPA 6020B	428062
680-231076-2	SCH-SGWC-13	Total Recoverable	Water	EPA 6020B	428062

Metals (Continued)

Analysis Batch: 428454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-3	SCH-SGWC-14	Total Recoverable	Water	EPA 6020B	428062
680-231076-4	SCH-SGWC-15	Total Recoverable	Water	EPA 6020B	428062
680-231076-5	SCH-SGWC-16	Total Recoverable	Water	EPA 6020B	428062
680-231076-6	SCH-SGWC-21	Total Recoverable	Water	EPA 6020B	428062
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428062
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428062
680-231043-E-3-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428062
680-231043-E-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428062

Prep Batch: 428559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	7470A	
680-231076-2	SCH-SGWC-13	Total/NA	Water	7470A	
680-231076-3	SCH-SGWC-14	Total/NA	Water	7470A	
680-231076-4	SCH-SGWC-15	Total/NA	Water	7470A	
680-231076-5	SCH-SGWC-16	Total/NA	Water	7470A	
680-231076-6	SCH-SGWC-21	Total/NA	Water	7470A	
680-231076-7	SCH-SGWC-22	Total/NA	Water	7470A	
680-231076-8	SCH-SGWC-23	Total/NA	Water	7470A	
680-231076-9	SCH-SGWA-24	Total/NA	Water	7470A	
680-231076-10	SCH-SGWA-25	Total/NA	Water	7470A	
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	7470A	
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	7470A	
MB 180-428559/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428559/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-231076-1 MS	SCH-SGWC-12	Total/NA	Water	7470A	
680-231076-1 MSD	SCH-SGWC-12	Total/NA	Water	7470A	

Analysis Batch: 428715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	EPA 7470A	428559
680-231076-2	SCH-SGWC-13	Total/NA	Water	EPA 7470A	428559
680-231076-3	SCH-SGWC-14	Total/NA	Water	EPA 7470A	428559
680-231076-4	SCH-SGWC-15	Total/NA	Water	EPA 7470A	428559
680-231076-5	SCH-SGWC-16	Total/NA	Water	EPA 7470A	428559
680-231076-6	SCH-SGWC-21	Total/NA	Water	EPA 7470A	428559
680-231076-7	SCH-SGWC-22	Total/NA	Water	EPA 7470A	428559
680-231076-8	SCH-SGWC-23	Total/NA	Water	EPA 7470A	428559
680-231076-9	SCH-SGWA-24	Total/NA	Water	EPA 7470A	428559
680-231076-10	SCH-SGWA-25	Total/NA	Water	EPA 7470A	428559
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	EPA 7470A	428559
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	EPA 7470A	428559
MB 180-428559/1-A	Method Blank	Total/NA	Water	EPA 7470A	428559
LCS 180-428559/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428559
680-231076-1 MS	SCH-SGWC-12	Total/NA	Water	EPA 7470A	428559
680-231076-1 MSD	SCH-SGWC-12	Total/NA	Water	EPA 7470A	428559

Analysis Batch: 428748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428062
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428062

QC Association Summary

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

Job ID: 680-231076-1

Metals

Analysis Batch: 430208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-7	SCH-SGWC-22	Total Recoverable	Water	EPA 6020B	428412
680-231076-8	SCH-SGWC-23	Total Recoverable	Water	EPA 6020B	428412
680-231076-9	SCH-SGWA-24	Total Recoverable	Water	EPA 6020B	428412
680-231076-10	SCH-SGWA-25	Total Recoverable	Water	EPA 6020B	428412
680-231076-11	SCH-AP1-FB-2	Total Recoverable	Water	EPA 6020B	428412
680-231076-12	SCH-AP1-EB-2	Total Recoverable	Water	EPA 6020B	428412
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428412
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428412
680-231076-7 MS	SCH-SGWC-22	Total Recoverable	Water	EPA 6020B	428412
680-231076-7 MSD	SCH-SGWC-22	Total Recoverable	Water	EPA 6020B	428412

Analysis Batch: 430527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total Recoverable	Water	EPA 6020B	428062
680-231076-2	SCH-SGWC-13	Total Recoverable	Water	EPA 6020B	428062
680-231076-5	SCH-SGWC-16	Total Recoverable	Water	EPA 6020B	428062
MB 180-428062/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428062
LCS 180-428062/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428062
680-231043-E-3-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428062
680-231043-E-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428062

Prep Batch: 430846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-3	SCH-SGWC-14	Total Recoverable	Water	3005A	
680-231076-4	SCH-SGWC-15	Total Recoverable	Water	3005A	
680-231076-6	SCH-SGWC-21	Total Recoverable	Water	3005A	
MB 180-430846/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-430846/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-152511-E-1-K MS ^2	Matrix Spike	Total Recoverable	Water	3005A	
180-152511-E-1-L MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 431009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-3	SCH-SGWC-14	Total Recoverable	Water	EPA 6020B	430846
680-231076-4	SCH-SGWC-15	Total Recoverable	Water	EPA 6020B	430846
680-231076-6	SCH-SGWC-21	Total Recoverable	Water	EPA 6020B	430846
MB 180-430846/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	430846
LCS 180-430846/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	430846
180-152511-E-1-K MS ^2	Matrix Spike	Total Recoverable	Water	EPA 6020B	430846
180-152511-E-1-L MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	430846

Analysis Batch: 431774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-7	SCH-SGWC-22	Total Recoverable	Water	EPA 6020B	428412
680-231076-8	SCH-SGWC-23	Total Recoverable	Water	EPA 6020B	428412
680-231076-9	SCH-SGWA-24	Total Recoverable	Water	EPA 6020B	428412
680-231076-10	SCH-SGWA-25	Total Recoverable	Water	EPA 6020B	428412
680-231076-11	SCH-AP1-FB-2	Total Recoverable	Water	EPA 6020B	428412
680-231076-12	SCH-AP1-EB-2	Total Recoverable	Water	EPA 6020B	428412
MB 180-428412/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428412
LCS 180-428412/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428412

Metals (Continued)

Analysis Batch: 431774 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-7 MS	SCH-SGWC-22	Total Recoverable	Water	EPA 6020B	428412
680-231076-7 MSD	SCH-SGWC-22	Total Recoverable	Water	EPA 6020B	428412

General Chemistry

Analysis Batch: 427598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	SM2320 B	
680-231076-2	SCH-SGWC-13	Total/NA	Water	SM2320 B	
680-231076-3	SCH-SGWC-14	Total/NA	Water	SM2320 B	
680-231076-4	SCH-SGWC-15	Total/NA	Water	SM2320 B	
680-231076-5	SCH-SGWC-16	Total/NA	Water	SM2320 B	
680-231076-6	SCH-SGWC-21	Total/NA	Water	SM2320 B	
680-231076-7	SCH-SGWC-22	Total/NA	Water	SM2320 B	
680-231076-8	SCH-SGWC-23	Total/NA	Water	SM2320 B	
680-231076-9	SCH-SGWA-24	Total/NA	Water	SM2320 B	
680-231076-10	SCH-SGWA-25	Total/NA	Water	SM2320 B	
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	SM2320 B	
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	SM2320 B	
MB 180-427598/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-427598/53	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427598/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-427598/52	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427598/27	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427598/51	Lab Control Sample	Total/NA	Water	SM2320 B	
680-231076-2 DU	SCH-SGWC-13	Total/NA	Water	SM2320 B	
680-231076-8 DU	SCH-SGWC-23	Total/NA	Water	SM2320 B	

Prep Batch: 427619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	9030B	
680-231076-2	SCH-SGWC-13	Total/NA	Water	9030B	
680-231076-3	SCH-SGWC-14	Total/NA	Water	9030B	
680-231076-4	SCH-SGWC-15	Total/NA	Water	9030B	
680-231076-5	SCH-SGWC-16	Total/NA	Water	9030B	
680-231076-6	SCH-SGWC-21	Total/NA	Water	9030B	
680-231076-7	SCH-SGWC-22	Total/NA	Water	9030B	
680-231076-8	SCH-SGWC-23	Total/NA	Water	9030B	
680-231076-9	SCH-SGWA-24	Total/NA	Water	9030B	
680-231076-10	SCH-SGWA-25	Total/NA	Water	9030B	
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	9030B	
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	9030B	
MB 180-427619/2-A	Method Blank	Total/NA	Water	9030B	
LCS 180-427619/1-A	Lab Control Sample	Total/NA	Water	9030B	
680-231076-1 MS	SCH-SGWC-12	Total/NA	Water	9030B	
680-231076-1 MSD	SCH-SGWC-12	Total/NA	Water	9030B	

Analysis Batch: 427674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	EPA 9034	427619
680-231076-2	SCH-SGWC-13	Total/NA	Water	EPA 9034	427619

General Chemistry (Continued)

Analysis Batch: 427674 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-3	SCH-SGWC-14	Total/NA	Water	EPA 9034	427619
680-231076-4	SCH-SGWC-15	Total/NA	Water	EPA 9034	427619
680-231076-5	SCH-SGWC-16	Total/NA	Water	EPA 9034	427619
680-231076-6	SCH-SGWC-21	Total/NA	Water	EPA 9034	427619
680-231076-7	SCH-SGWC-22	Total/NA	Water	EPA 9034	427619
680-231076-8	SCH-SGWC-23	Total/NA	Water	EPA 9034	427619
680-231076-9	SCH-SGWA-24	Total/NA	Water	EPA 9034	427619
680-231076-10	SCH-SGWA-25	Total/NA	Water	EPA 9034	427619
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	EPA 9034	427619
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	EPA 9034	427619
MB 180-427619/2-A	Method Blank	Total/NA	Water	EPA 9034	427619
LCS 180-427619/1-A	Lab Control Sample	Total/NA	Water	EPA 9034	427619
680-231076-1 MS	SCH-SGWC-12	Total/NA	Water	EPA 9034	427619
680-231076-1 MSD	SCH-SGWC-12	Total/NA	Water	EPA 9034	427619

Analysis Batch: 427794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	SM 2540C	
680-231076-2	SCH-SGWC-13	Total/NA	Water	SM 2540C	
680-231076-3	SCH-SGWC-14	Total/NA	Water	SM 2540C	
MB 180-427794/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427794/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-152609-C-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 427967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-4	SCH-SGWC-15	Total/NA	Water	SM 2540C	
680-231076-5	SCH-SGWC-16	Total/NA	Water	SM 2540C	
680-231076-6	SCH-SGWC-21	Total/NA	Water	SM 2540C	
680-231076-7	SCH-SGWC-22	Total/NA	Water	SM 2540C	
680-231076-8	SCH-SGWC-23	Total/NA	Water	SM 2540C	
680-231076-9	SCH-SGWA-24	Total/NA	Water	SM 2540C	
680-231076-10	SCH-SGWA-25	Total/NA	Water	SM 2540C	
680-231076-11	SCH-AP1-FB-2	Total/NA	Water	SM 2540C	
MB 180-427967/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427967/2	Lab Control Sample	Total/NA	Water	SM 2540C	
680-231078-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	
680-231081-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 428853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-12	SCH-AP1-EB-2	Total/NA	Water	SM 2540C	
MB 180-428853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-428853/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-152798-B-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 429994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-7	SCH-SGWC-22	Total/NA	Water	SM 3500	
680-231076-8	SCH-SGWC-23	Total/NA	Water	SM 3500	
680-231076-9	SCH-SGWA-24	Total/NA	Water	SM 3500	

General Chemistry (Continued)

Analysis Batch: 429994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-10	SCH-SGWA-25	Total/NA	Water	SM 3500	

Analysis Batch: 430037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	SM 3500	
680-231076-2	SCH-SGWC-13	Total/NA	Water	SM 3500	
680-231076-3	SCH-SGWC-14	Total/NA	Water	SM 3500	
680-231076-4	SCH-SGWC-15	Total/NA	Water	SM 3500	
680-231076-5	SCH-SGWC-16	Total/NA	Water	SM 3500	
680-231076-6	SCH-SGWC-21	Total/NA	Water	SM 3500	

Field Service / Mobile Lab

Analysis Batch: 428232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231076-1	SCH-SGWC-12	Total/NA	Water	Field Sampling	
680-231076-2	SCH-SGWC-13	Total/NA	Water	Field Sampling	
680-231076-3	SCH-SGWC-14	Total/NA	Water	Field Sampling	
680-231076-4	SCH-SGWC-15	Total/NA	Water	Field Sampling	
680-231076-5	SCH-SGWC-16	Total/NA	Water	Field Sampling	
680-231076-6	SCH-SGWC-21	Total/NA	Water	Field Sampling	
680-231076-7	SCH-SGWC-22	Total/NA	Water	Field Sampling	
680-231076-8	SCH-SGWC-23	Total/NA	Water	Field Sampling	
680-231076-9	SCH-SGWA-24	Total/NA	Water	Field Sampling	
680-231076-10	SCH-SGWA-25	Total/NA	Water	Field Sampling	

Lab Chronicle

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-12

Date Collected: 02/23/23 10:35
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/04/23 21:07	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:27	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 12:37	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:26	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 15:50	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427794	03/01/23 14:28	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 16:53	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 10:35	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-13

Date Collected: 02/23/23 13:10
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 03:16	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:31	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 12:40	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:29	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 15:54	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427794	03/01/23 14:28	LWM	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-13

Lab Sample ID: 680-231076-2
Date Collected: 02/23/23 13:10
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 17:19	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 13:10	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-14

Lab Sample ID: 680-231076-3
Date Collected: 02/23/23 10:53
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/04/23 21:25	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430846	03/30/23 11:14	JBP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431009	03/31/23 16:11	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:34	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:33	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 15:56	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427794	03/01/23 14:28	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 17:28	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 10:53	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-15

Lab Sample ID: 680-231076-4
Date Collected: 02/23/23 13:08
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/04/23 21:44	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430846	03/30/23 11:14	JBP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431009	03/31/23 15:16	RSK	EET PIT
	Instrument ID: A									

Lab Chronicle

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-15

Lab Sample ID: 680-231076-4

Date Collected: 02/23/23 13:08
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:38	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:34	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 15:57	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 17:33	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 13:08	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-16

Lab Sample ID: 680-231076-5

Date Collected: 02/23/23 15:24
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/04/23 22:02	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:42	RSK	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 12:54	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:35	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 15:58	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 17:37	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 15:24	FDS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-21

Lab Sample ID: 680-231076-6

Date Collected: 02/23/23 09:00
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/04/23 22:20	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430846	03/30/23 11:14	JBP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431009	03/31/23 16:15	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428062	03/03/23 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			428454	03/04/23 16:45	RSK	EET PIT
	Instrument ID: DORY									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:36	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:00	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 17:41	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 09:00	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-22

Lab Sample ID: 680-231076-7

Date Collected: 02/23/23 12:37
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 00:48	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 15:20	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:11	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:37	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:01	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWC-22

Lab Sample ID: 680-231076-7
Date Collected: 02/23/23 12:37
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 17:46	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 12:37	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWC-23

Lab Sample ID: 680-231076-8
Date Collected: 02/23/23 10:47
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 01:07	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 15:39	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:22	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:39	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:05	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 18:00	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 10:47	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWA-24

Lab Sample ID: 680-231076-9
Date Collected: 02/23/23 11:10
Matrix: Water
Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 01:25	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 15:42	RSK	EET PIT
	Instrument ID: A									

Lab Chronicle

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

Job ID: 680-231076-1

Client Sample ID: SCH-SGWA-24

Lab Sample ID: 680-231076-9

Date Collected: 02/23/23 11:10

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:25	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:40	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:07	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/22/23 08:58	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 18:10	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 11:10	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-SGWA-25

Lab Sample ID: 680-231076-10

Date Collected: 02/23/23 09:35

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 01:44	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 15:46	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:29	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:41	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:08	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			429994	03/29/23 07:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 18:15	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428232	02/23/23 09:35	FDS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-231076-1

Client Sample ID: SCH-AP1-FB-2

Date Collected: 02/23/23 12:45
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 04:11	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 15:57	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:44	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:42	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:09	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427967	03/02/23 17:58	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 18:20	MAM	EET PIT
	Instrument ID: PCTITRATOR									

Client Sample ID: SCH-AP1-EB-2

Date Collected: 02/23/23 16:25
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231076-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 02:02	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 16:19	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428412	03/08/23 09:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 12:48	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428559	03/09/23 09:25	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 13:43	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	427619	02/28/23 09:29	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			427674	02/28/23 16:11	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427598	02/27/23 18:23	MAM	EET PIT
	Instrument ID: PCTITRATOR									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231076-1
Project/Site: CCR Plant Scherer - Ash Pond

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23 *
Wisconsin	State	998027800	08-31-23

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

Method Summary

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

Job ID: 680-231076-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM 3500	Iron, Ferric	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

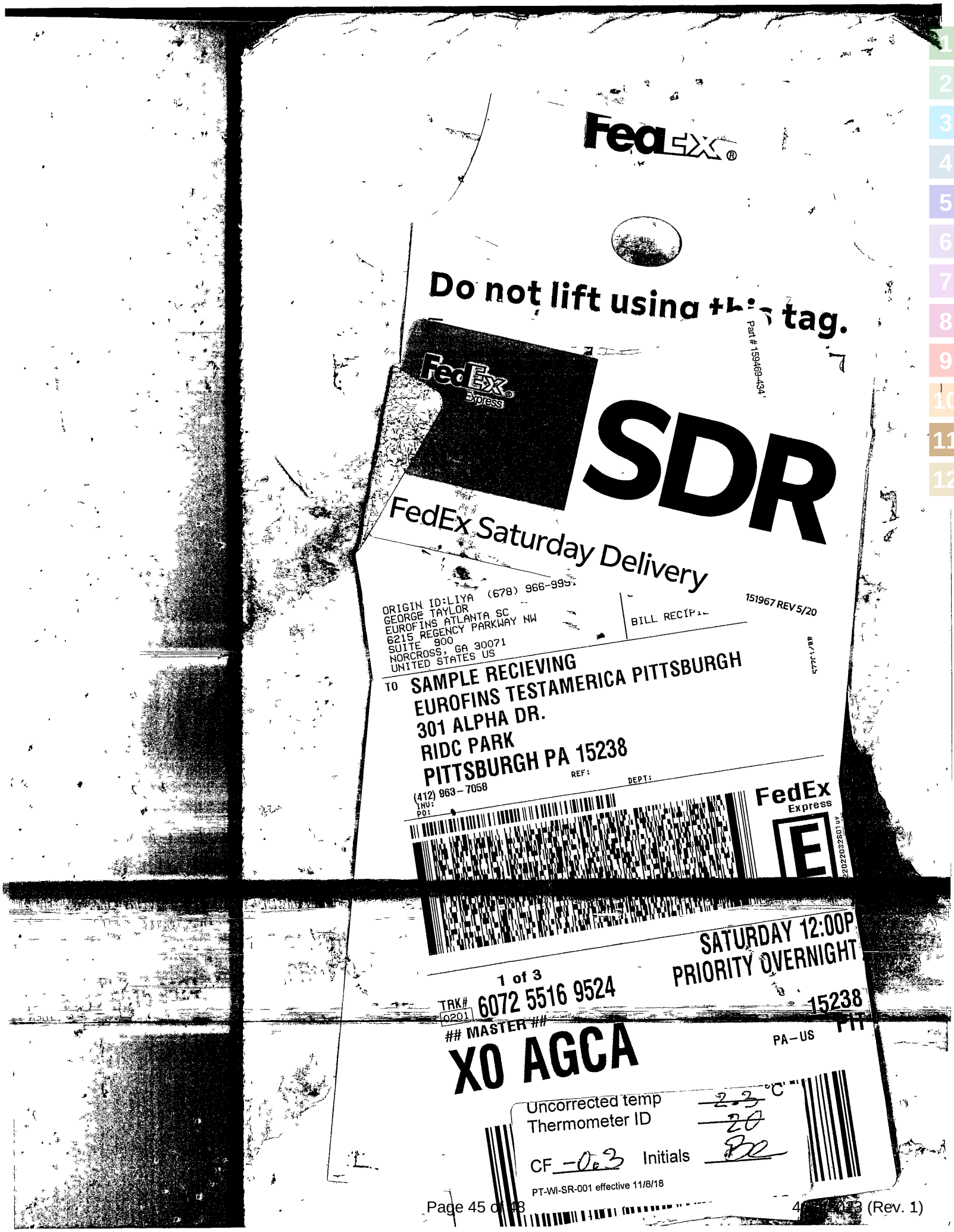
SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

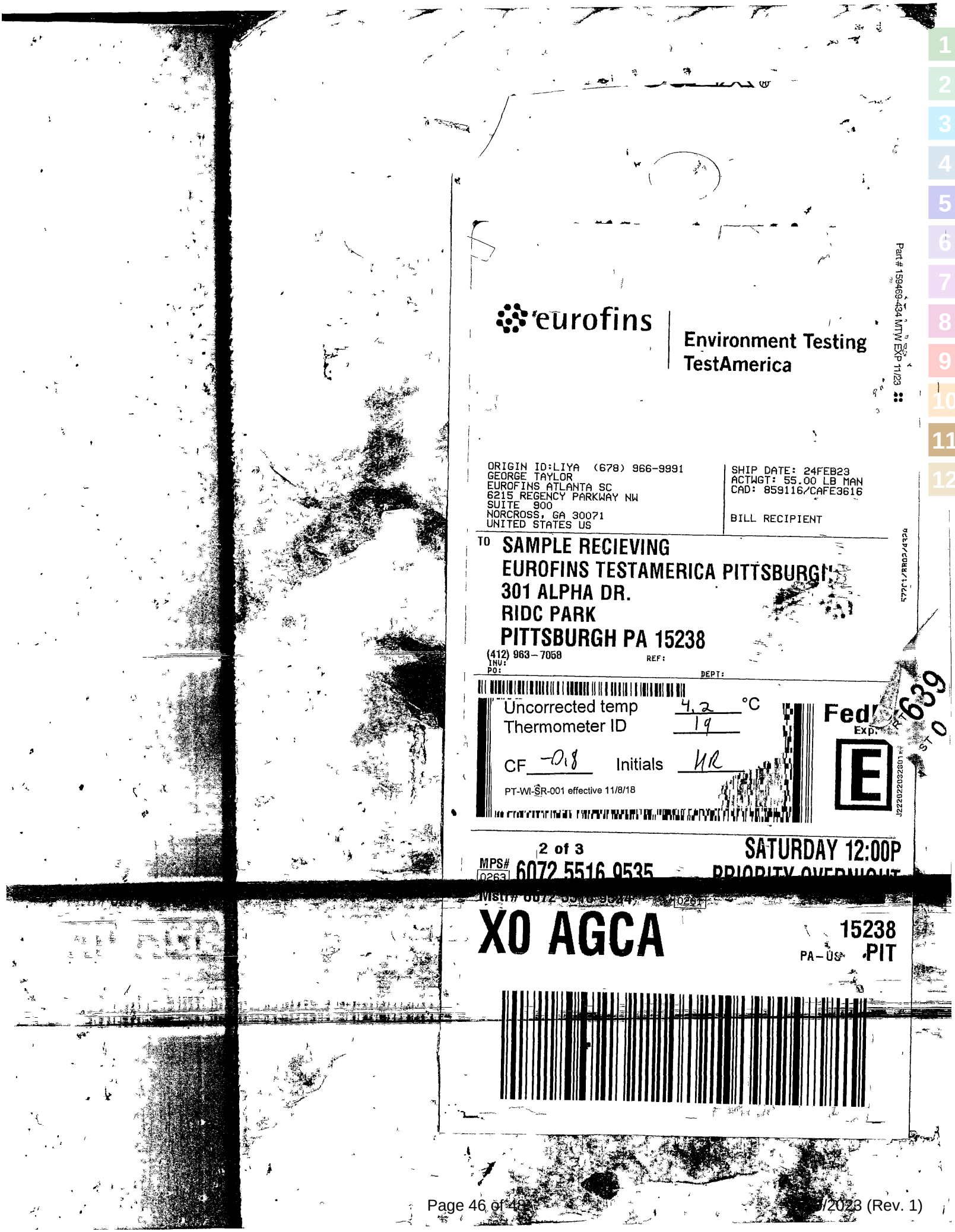
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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


Part # 158469-434 EXP 11/23
Environment Testing
TestAmerica
680-231076 Waybill
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
MPS# 0263 6072 5516 9546
Mstr# 6072 5516 9524
0201
XO AGCA
15238
PA-US PIT
Uncorrected temp
Thermometer ID 20
CF -0.3 Initials Ba
PT-WI-SR-001 effective 11/8/18


FedEx
Do not lift using this tag.
Part # 159469-434
FedEx Express
SDR
FedEx Saturday Delivery
ORIGIN ID:LIYA (678) 966-9997
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
BILL RECIPIENT
151967 REV 5/20
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
DEPT:
INV:
PO:
FedEx Express
1 of 3
TRK# 6072 5516 9524
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
MASTER
XO AGCA
15238
PA-US
PIT
Uncorrected temp -2.3 °C
Thermometer ID 20
CF -0.3 Initials BC
PT-WI-SR-001 effective 11/8/18



eurofins | Environment Testing TestAmerica

Part # 159469-434 MTW EXP 11/23

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616

BILL RECIPIENT

TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058

INV:
PO:
REF:
DEPT:

Uncorrected temp 4.2 °C
Thermometer ID 19
CF -0.8 Initials HR
PT-WI-SR-001 effective 11/8/18

Fed Ex Exp

2 of 3
MPS# 0263 6072 5516 0535

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

680-231076 Chain of Custody

Chain of Custody Record

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/24/23	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: WSP	1 of 1 COCs
Southern Company	**Analysis Turnaround Time**			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client:
JAbraham@southernco com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Ash Pond	☐ 1 week			
Site: Georgia	☐ 2 days			Job / SDG No.:
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes:
SCH-SGWC-12	2/23/2023	10.35	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 04, Fe2= 1 5, collected at 10 35, analyzed 10:40
SCH-SGWC-13	2/23/2023	13:10	G	WG	10	N	N	X	X	X	X	X	X	X	X	pH= 5.94, Fe2= 0 0, collected at 13:10 analyzed 13:15
SCH-SGWC-14	2/23/2023	10:53	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.72, Fe2= 0 0, collected at 10:53, analyzed 10.58
SCH-SGWC-15	2/23/2023	13:08	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 4.59, Fe2= 0 0, collected at 13.08, analyzed at 13.13
SCH-SGWC-16	2/23/2023	15.24	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5.13, Fe2= 0 0, collected at 15 24, analyzed at 15 29
SCH-SGWC-21	2/23/2023	9 00	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 19, Fe2= 0 0, collected at 09.00, analyzed at 09 05
SCH-SGWC-22	2/23/2023	12 37	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 5 72, Fe2= 0 0, collected at 12:37, analyzed at 12 42
SCH-SGWC-23	2/23/2023	10.47	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 00, Fe2= 0 0, collected at 10 47, analyzed at 10 52
SCH-SGWC-24	2/23/2023	11 10	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.33, Fe2= 0 0, collected at 11 10, analyzed at 11 15
SCH-SGWC-25	2/23/2023	9 35	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 04, Fe2= 0 0, collected at 09.35, analyzed at 09 40
SCH-AP1-FB-2	2/23/2023	12 45	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
SCH-AP1-EB-2	2/23/2023	16 25	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other								4	4	4	4	6	4	2		

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by: Tiffany Messier	WSP USA	2/24/23 12:11	Received by:		
Relinquished by: Tiffany Messier	WSP USA	2/24/23	Received by:	EPLING	2-25-23 0900
Relinquished by:	Company:	Date/Time	Received in Laboratory by.	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/20/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231076-1

Login Number: 231076
List Number: 3
Creator: Weimerskirk, Angie

List Source: Eurofins Pittsburgh
List Creation: 04/14/23 11:10 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/4/2023 8:51:17 AM

JOB DESCRIPTION

CCR Plant Scherer - AP1 PZs

JOB NUMBER

680-231081-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
4/4/2023 8:51:17 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231081-2

Qualifiers

Rad

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

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231081-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231081-1	SCH-PZ-43S	Water	02/24/23 11:50	02/25/23 09:00
680-231081-2	SCH-AP1-EB-3	Water	02/24/23 10:25	02/25/23 09:00

Job ID: 680-231081-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231081-2

Receipt
The samples were received on 2/25/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium 226 Prep Batch 160-603170Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-43S (680-231081-1) and SCH-AP1-EB-3 (680-231081-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Prep batch 160-603170:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SCH-PZ-43S (680-231081-1), SCH-AP1-EB-3 (680-231081-2), (LCS 160-603170/2-A), (LCSD 160-603170/3-A) and (MB 160-603170/1-A)

Method 9320_Ra228: Radium 228 Prep Batch 160-603171Insufficient sample volume was available to perform a sample duplicate for the following samples: SCH-PZ-43S (680-231081-1) and SCH-AP1-EB-3 (680-231081-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 603171The LCS recovered at (127%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCSD 160-603171/3-A)

Method 9320_Ra228: Radium-228 batch 603171Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.SCH-PZ-43S (680-231081-1), SCH-AP1-EB-3 (680-231081-2), (LCS 160-603171/2-A), (LCSD 160-603171/3-A) and (MB 160-603171/1-A)

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

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

Client Sample ID: SCH-PZ-43S

Lab Sample ID: 680-231081-1

Date Collected: 02/24/23 11:50

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0301	U	0.0616	0.0616	1.00	0.110	pCi/L	03/10/23 09:30	04/03/23 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*03/10/23 09:30*	*04/03/23 09:52*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.572**		0.333	0.337	1.00	0.474	pCi/L	03/10/23 09:57	03/24/23 12:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*03/10/23 09:57*	*03/24/23 12:23*	*1*
Y Carrier	*85.6*		*30 - 110*	*03/10/23 09:57*	*03/24/23 12:23*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.602**		0.339	0.343	5.00	0.474	pCi/L		04/03/23 15:19	1

Client Sample ID: SCH-AP1-EB-3

Lab Sample ID: 680-231081-2

Date Collected: 02/24/23 10:25

Matrix: Water

Date Received: 02/25/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0430	U	0.0646	0.0648	1.00	0.111	pCi/L	03/10/23 09:30	04/03/23 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*30 - 110*	*03/10/23 09:30*	*04/03/23 09:52*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.365	U	0.288	0.290	1.00	0.439	pCi/L	03/10/23 09:57	03/24/23 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*30 - 110*	*03/10/23 09:57*	*03/24/23 12:24*	*1*
Y Carrier	*89.0*		*30 - 110*	*03/10/23 09:57*	*03/24/23 12:24*	*1*

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231081-2

Client Sample ID: SCH-AP1-EB-3
Date Collected: 02/24/23 10:25
Date Received: 02/25/23 09:00

Lab Sample ID: 680-231081-2
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.408	U	0.295	0.297	5.00	0.439	pCi/L		04/03/23 15:19	1

Tracer/Carrier Summary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231081-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-231081-1	SCH-PZ-43S	91.8
680-231081-2	SCH-AP1-EB-3	88.7
LCS 160-603170/2-A	Lab Control Sample	95.2
LCSD 160-603170/3-A	Lab Control Sample Dup	88.7
MB 160-603170/1-A	Method Blank	90.1

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-231081-1	SCH-PZ-43S	91.8	85.6
680-231081-2	SCH-AP1-EB-3	88.7	89.0
LCS 160-603171/2-A	Lab Control Sample	95.2	81.1
LCSD 160-603171/3-A	Lab Control Sample Dup	88.7	80.7
MB 160-603171/1-A	Method Blank	90.1	80.7

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-603170/1-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603170

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01976	U	0.0606	0.0606	1.00	0.113	pCi/L	03/10/23 09:30	04/03/23 10:00	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*03/10/23 09:30*	*04/03/23 10:00*	*1*

Lab Sample ID: LCS 160-603170/2-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603170

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.43		1.17	1.00	0.0835	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.2*		*30 - 110*

Lab Sample ID: LCSD 160-603170/3-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603170

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.45		1.18	1.00	0.0895	pCi/L	101	75 - 125	0.01	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*88.7*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-603171/1-A
Matrix: Water
Analysis Batch: 604973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603171

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6538		0.361	0.366	1.00	0.504	pCi/L	03/10/23 09:56	03/24/23 12:15	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*03/10/23 09:56*	*03/24/23 12:15*	*1*
Y Carrier	*80.7*		*30 - 110*	*03/10/23 09:56*	*03/24/23 12:15*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-603171/2-A
Matrix: Water
Analysis Batch: 604973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603171

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.09	9.575		1.29	1.00	0.463	pCi/L	118	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.2*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

Lab Sample ID: LCSD 160-603171/3-A
Matrix: Water
Analysis Batch: 604973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603171

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.09	10.24		1.40	1.00	0.592	pCi/L	127	75 - 125	0.25	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*88.7*		*30 - 110*
Y Carrier	*80.7*		*30 - 110*

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231081-2

Rad

Prep Batch: 603170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	PrecSep-21	
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	PrecSep-21	
MB 160-603170/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603170/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-603170/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 603171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231081-1	SCH-PZ-43S	Total/NA	Water	PrecSep_0	
680-231081-2	SCH-AP1-EB-3	Total/NA	Water	PrecSep_0	
MB 160-603171/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603171/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603171/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231081-2

Client Sample ID: SCH-PZ-43S

Lab Sample ID: 680-231081-1

Date Collected: 02/24/23 11:50

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			992.65 mL	1.0 g	603170	03/10/23 09:30	DJP	EET SL
Total/NA	Analysis	9315		1			605834	04/03/23 09:52	EMH	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			992.65 mL	1.0 g	603171	03/10/23 09:57	DJP	EET SL
Total/NA	Analysis	9320		1			604975	03/24/23 12:23	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			605947	04/03/23 15:19	CAH	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-EB-3

Lab Sample ID: 680-231081-2

Date Collected: 02/24/23 10:25

Matrix: Water

Date Received: 02/25/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.59 mL	1.0 g	603170	03/10/23 09:30	DJP	EET SL
Total/NA	Analysis	9315		1			605834	04/03/23 09:52	EMH	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			994.59 mL	1.0 g	603171	03/10/23 09:57	DJP	EET SL
Total/NA	Analysis	9320		1			604975	03/24/23 12:24	FLC	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			605947	04/03/23 15:19	CAH	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231081-2
Project/Site: CCR Plant Scherer - AP1 PZs

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer - AP1 PZs

Job ID: 680-231081-2

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

Protocol References:

None = None

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

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

Laboratory References:

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


Part # 159469-494 MTW EXP 11/23
eurofins
Environment Testing
TestAmerica
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 24FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
DEPT:
FedEx
Express
680-231081 Waybill
SATURDAY 12:00P
MPS# 6072 5516 9546
PRIORITY OVERNIGHT
Mstr# 6072 5516 9524
0263
0201
XO AGCA
15238
PA-US
PIT
Uncorrected temp
Thermometer ID
CF -0.3
Initials
PT-WI-SR-001 effective 11/8/18

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412 963.7058 fax 412 963 2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/24/23	COC No
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: WSP	1 of 1 COCs
Southern Company	**Analysis Turnaround Time**			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client.
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling
Project Name: CCR - Plant Scherer AP1 PZs	☐ 1 week			
Site: Georgia	☐ 2 days			Job / SDG No
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes
SCH-PZ-43S	2/24/2023	11 50	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 97, Fe2= 0 0, collected at 11.50, analyzed 11 55
SCH-AP1-EB-3	2/24/2023	10 25	G	WQ	8	N	N	X	X	X	X	X	X	X	X	
								4	4	4	4	5	1	1	4	

TO ST LOUIS
Sample Specific Notes

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

680-231081 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

***Special Instructions*/QC Requirements & Comments:** SCH-CCR-ASSMT-2023S1

15:50

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd:_____ Corr'd._____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
DUANE FULTON	WSP	02/24/23 1		Eurofins	2/24/23 15:50
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	Eurofins 16:00	2/24/23		Eurofins	2-24-23 0900
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/4/2023

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231081-2

Login Number: 231081
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/01/23 01:38 PM

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

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 3/29/2023 5:50:35 PM

JOB DESCRIPTION

CCR - Plant Scherer - Additional PZ

JOB NUMBER

680-231212-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
3/29/2023 5:50:35 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-231212-1
Project/Site: CCR - Plant Scherer - Additional PZ

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231212-1	SCH-PZ-25S	Water	02/27/23 15:55	03/01/23 09:24
680-231212-2	SCH-PZ-25I	Water	02/27/23 14:20	03/01/23 09:24

Job ID: 680-231212-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231212-1

Receipt
The samples were received on 3/1/2023 9:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2°C and 3.2°C

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-428116 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

General Chemistry
Method 2540C_Calcd: The sample duplicate precision for the following sample associated with analytical batch 180-428299 was outside control limits: SCH-PZ-25S (680-231212-1). The associated Laboratory Control Sample (LCS) precision met acceptance criteria.

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

Client: Southern Company
Project/Site: CCR - Plant Scherer - Additional PZ

Job ID: 680-231212-1

Client Sample ID: SCH-PZ-25S

Lab Sample ID: 680-231212-1

Date Collected: 02/27/23 15:55
Matrix: Water
Date Received: 03/01/23 09:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.4**		1.0	0.71	mg/L			03/02/23 06:06	1
Fluoride	**0.052**	**J**	0.10	0.026	mg/L			03/02/23 06:06	1
Sulfate	**2.1**		1.0	0.76	mg/L			03/02/23 06:06	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0022**		0.0020	0.00097	mg/L		03/08/23 10:30	03/19/23 00:56	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 10:30	03/19/23 00:56	1
Barium	**0.023**		0.010	0.0031	mg/L		03/08/23 10:30	03/19/23 00:56	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 10:30	03/19/23 00:56	1
Boron	<0.060		0.080	0.060	mg/L		03/08/23 10:30	03/25/23 09:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 10:30	03/19/23 00:56	1
Calcium	**1.2**		0.50	0.13	mg/L		03/08/23 10:30	03/19/23 00:56	1
Chromium	**0.0028**		0.0020	0.0015	mg/L		03/08/23 10:30	03/19/23 00:56	1
Cobalt	**0.020**		0.0025	0.00026	mg/L		03/08/23 10:30	03/19/23 00:56	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 10:30	03/19/23 00:56	1
Lithium	**0.0036**	**J**	0.0050	0.0013	mg/L		03/08/23 10:30	03/19/23 00:56	1
Magnesium	**0.43**	**J**	0.50	0.050	mg/L		03/08/23 10:30	03/19/23 00:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 10:30	03/19/23 00:56	1
Potassium	**0.36**	**J**	0.50	0.16	mg/L		03/08/23 10:30	03/19/23 00:56	1
Selenium	**0.00092**	**J**	0.0050	0.00074	mg/L		03/08/23 10:30	03/19/23 00:56	1
Sodium	**3.9**	**B**	0.50	0.18	mg/L		03/08/23 10:30	03/19/23 00:56	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 10:30	03/19/23 00:56	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**17**		10	10	mg/L			03/06/23 19:19	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 19:02	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 19:02	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 19:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**4.84**				SU			02/27/23 15:55	1

Client Sample ID: SCH-PZ-25I

Lab Sample ID: 680-231212-2

Date Collected: 02/27/23 14:20
Matrix: Water
Date Received: 03/01/23 09:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**		1.0	0.71	mg/L			03/05/23 10:39	1
Fluoride	**0.057**	**J**	0.10	0.026	mg/L			03/05/23 10:39	1
Sulfate	**2.0**		1.0	0.76	mg/L			03/05/23 10:39	1

Client: Southern Company
Project/Site: CCR - Plant Scherer - Additional PZ

Job ID: 680-231212-1

Client Sample ID: SCH-PZ-25I

Date Collected: 02/27/23 14:20
Date Received: 03/01/23 09:24

Lab Sample ID: 680-231212-2

Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/08/23 10:30	03/25/23 09:55	1
Calcium	**26**		0.50	0.13	mg/L		03/08/23 10:30	03/19/23 00:59	1
Cobalt	**0.00082**	**J**	0.0025	0.00026	mg/L		03/08/23 10:30	03/19/23 00:59	1
Magnesium	**14**		0.50	0.050	mg/L		03/08/23 10:30	03/19/23 00:59	1
Potassium	**1.2**		0.50	0.16	mg/L		03/08/23 10:30	03/19/23 00:59	1
Sodium	**5.0**	**B**	0.50	0.18	mg/L		03/08/23 10:30	03/19/23 00:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**150**		10	10	mg/L			03/01/23 17:33	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**130**		5.0	5.0	mg/L			03/01/23 19:06	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**130**		5.0	5.0	mg/L			03/01/23 19:06	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/01/23 19:06	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-427773/36
Matrix: Water
Analysis Batch: 427773

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/02/23 00:15	1
Fluoride	<0.026		0.10	0.026	mg/L			03/02/23 00:15	1
Sulfate	<0.76		1.0	0.76	mg/L			03/02/23 00:15	1

Lab Sample ID: LCS 180-427773/37
Matrix: Water
Analysis Batch: 427773

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.6		mg/L		99	90 - 110
Fluoride	2.50	2.72		mg/L		109	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: 680-231212-1 MS
Matrix: Water
Analysis Batch: 427773

Client Sample ID: SCH-PZ-25S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.4		50.0	53.5		mg/L		98	90 - 110
Fluoride	0.052	J	2.50	2.76		mg/L		108	90 - 110
Sulfate	2.1		50.0	53.8		mg/L		103	90 - 110

Lab Sample ID: 680-231212-1 MSD
Matrix: Water
Analysis Batch: 427773

Client Sample ID: SCH-PZ-25S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.4		50.0	53.6		mg/L		98	90 - 110	0	20
Fluoride	0.052	J	2.50	2.75		mg/L		108	90 - 110	0	20
Sulfate	2.1		50.0	53.5		mg/L		103	90 - 110	1	20

Lab Sample ID: MB 180-428116/69
Matrix: Water
Analysis Batch: 428116

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/23 08:48	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/23 08:48	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/23 08:48	1

Lab Sample ID: LCS 180-428116/70
Matrix: Water
Analysis Batch: 428116

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.5		mg/L		101	90 - 110
Fluoride	2.50	2.74		mg/L		110	90 - 110
Sulfate	50.0	53.1		mg/L		106	90 - 110

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-231325-A-1 MS
Matrix: Water
Analysis Batch: 428116

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.1		50.0	52.5		mg/L		99	90 - 110
Fluoride	0.080	J F1	2.50	2.86	F1	mg/L		111	90 - 110
Sulfate	4.7		50.0	56.8		mg/L		104	90 - 110

Lab Sample ID: 680-231325-A-1 MSD
Matrix: Water
Analysis Batch: 428116

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.1		50.0	52.7		mg/L		99	90 - 110	0	20
Fluoride	0.080	J F1	2.50	2.88	F1	mg/L		112	90 - 110	1	20
Sulfate	4.7		50.0	56.5		mg/L		104	90 - 110	1	20

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

Lab Sample ID: MB 180-428492/1-A
Matrix: Water
Analysis Batch: 429827

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/08/23 10:30	03/18/23 23:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/23 10:30	03/18/23 23:26	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/23 10:30	03/18/23 23:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/23 10:30	03/18/23 23:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/23 10:30	03/18/23 23:26	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/23 10:30	03/18/23 23:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/23 10:30	03/18/23 23:26	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/23 10:30	03/18/23 23:26	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/08/23 10:30	03/18/23 23:26	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/08/23 10:30	03/18/23 23:26	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/23 10:30	03/18/23 23:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/23 10:30	03/18/23 23:26	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/23 10:30	03/18/23 23:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/23 10:30	03/18/23 23:26	1
Sodium	0.321	J	0.50	0.18	mg/L		03/08/23 10:30	03/18/23 23:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/23 10:30	03/18/23 23:26	1

Lab Sample ID: MB 180-428492/1-A
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/08/23 10:30	03/25/23 09:11	1

Lab Sample ID: LCS 180-428492/2-A
Matrix: Water
Analysis Batch: 429827

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.272		mg/L		109	80 - 120

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

Lab Sample ID: LCS 180-428492/2-A
Matrix: Water
Analysis Batch: 429827

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.483		mg/L		97	80 - 120
Cadmium	0.500	0.510		mg/L		102	80 - 120
Calcium	25.0	26.9		mg/L		108	80 - 120
Chromium	0.500	0.494		mg/L		99	80 - 120
Cobalt	0.500	0.489		mg/L		98	80 - 120
Lead	0.500	0.506		mg/L		101	80 - 120
Lithium	0.500	0.482		mg/L		96	80 - 120
Magnesium	25.0	25.7		mg/L		103	80 - 120
Molybdenum	0.500	0.518		mg/L		104	80 - 120
Potassium	25.0	25.6		mg/L		102	80 - 120
Selenium	1.00	0.972		mg/L		97	80 - 120
Sodium	25.0	26.8		mg/L		107	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LCS 180-428492/2-A
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.16		mg/L		93	80 - 120

Lab Sample ID: 180-152698-F-1-B MS
Matrix: Water
Analysis Batch: 429827

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.012		0.250	0.270		mg/L		103	75 - 125
Arsenic	0.00041	J	1.00	0.965		mg/L		96	75 - 125
Barium	1.4		1.00	2.33		mg/L		97	75 - 125
Beryllium	<0.00027		0.500	0.480		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.502		mg/L		100	75 - 125
Calcium	33		25.0	59.4		mg/L		107	75 - 125
Chromium	<0.0015		0.500	0.490		mg/L		98	75 - 125
Cobalt	<0.00026		0.500	0.481		mg/L		96	75 - 125
Lead	<0.00038		0.500	0.491		mg/L		98	75 - 125
Lithium	0.0056		0.500	0.479		mg/L		95	75 - 125
Magnesium	2.5		25.0	28.6		mg/L		104	75 - 125
Molybdenum	<0.00061		0.500	0.510		mg/L		102	75 - 125
Potassium	1.9		25.0	27.8		mg/L		104	75 - 125
Selenium	0.0071		1.00	0.900		mg/L		89	75 - 125
Sodium	140	B	25.0	164	4	mg/L		83	75 - 125
Thallium	<0.00047		1.00	0.998		mg/L		100	75 - 125

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

Lab Sample ID: 180-152698-F-1-B MS
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	<0.060		1.25	1.10		mg/L		88	75 - 125		

Lab Sample ID: 180-152698-F-1-C MSD
Matrix: Water
Analysis Batch: 429827

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.012		0.250	0.270		mg/L		103	75 - 125	0	20
Arsenic	0.00041	J	1.00	0.974		mg/L		97	75 - 125	1	20
Barium	1.4		1.00	2.37		mg/L		101	75 - 125	2	20
Beryllium	<0.00027		0.500	0.481		mg/L		96	75 - 125	0	20
Cadmium	<0.00022		0.500	0.504		mg/L		101	75 - 125	0	20
Calcium	33		25.0	59.6		mg/L		108	75 - 125	0	20
Chromium	<0.0015		0.500	0.493		mg/L		99	75 - 125	1	20
Cobalt	<0.00026		0.500	0.484		mg/L		97	75 - 125	1	20
Lead	<0.00038		0.500	0.499		mg/L		100	75 - 125	2	20
Lithium	0.0056		0.500	0.484		mg/L		96	75 - 125	1	20
Magnesium	2.5		25.0	28.6		mg/L		104	75 - 125	0	20
Molybdenum	<0.00061		0.500	0.515		mg/L		103	75 - 125	1	20
Potassium	1.9		25.0	27.6		mg/L		103	75 - 125	1	20
Selenium	0.0071		1.00	0.928		mg/L		92	75 - 125	3	20
Sodium	140	B	25.0	166	4	mg/L		90	75 - 125	1	20
Thallium	<0.00047		1.00	1.01		mg/L		101	75 - 125	1	20

Lab Sample ID: 180-152698-F-1-C MSD
Matrix: Water
Analysis Batch: 430527

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.060		1.25	1.12		mg/L		90	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-428561/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/09/23 11:00	03/09/23 13:56	1

Lab Sample ID: LCS 180-428561/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00239		mg/L		95	80 - 120		

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 680-231078-E-9-C MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 428561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000927		mg/L		93	75 - 125

Lab Sample ID: 680-231078-E-9-D MSD
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 428561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000953		mg/L		95	75 - 125	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-427795/1
Matrix: Water
Analysis Batch: 427795

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/01/23 15:15	1

Lab Sample ID: LCS 180-427795/2
Matrix: Water
Analysis Batch: 427795

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	662		mg/L		100	85 - 115

Lab Sample ID: 180-152506-C-1 DU
Matrix: Water
Analysis Batch: 427795

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	470		456		mg/L		4	10

Lab Sample ID: MB 180-428299/1
Matrix: Water
Analysis Batch: 428299

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/06/23 19:19	1

Lab Sample ID: LCS 180-428299/2
Matrix: Water
Analysis Batch: 428299

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	638		mg/L		96	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 680-231212-1 DU
Matrix: Water
Analysis Batch: 428299

Client Sample ID: SCH-PZ-25S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	17		21.0	F5	mg/L		21	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-427853/29
Matrix: Water
Analysis Batch: 427853

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/01/23 18:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 18:52	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 18:52	1

Lab Sample ID: MB 180-427853/5
Matrix: Water
Analysis Batch: 427853

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/01/23 17:01	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 17:01	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/01/23 17:01	1

Lab Sample ID: LCS 180-427853/28
Matrix: Water
Analysis Batch: 427853

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	258		mg/L		101	90 - 110

Lab Sample ID: LCS 180-427853/4
Matrix: Water
Analysis Batch: 427853

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	252		mg/L		99	90 - 110

Lab Sample ID: LLCS 180-427853/27
Matrix: Water
Analysis Batch: 427853

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.3	14.7		mg/L		96	75 - 125

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-427853/3
Matrix: Water
Analysis Batch: 427853

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			15.3	15.3		mg/L		100	75 - 125		

Lab Sample ID: 680-231213-D-7 DU
Matrix: Water
Analysis Batch: 427853

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	92			94.3		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	92			94.3		mg/L				2	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - Additional PZ

Job ID: 680-231212-1

HPLC/IC

Analysis Batch: 427773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	EPA 300.0 R2.1	
MB 180-427773/36	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-427773/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-231212-1 MS	SCH-PZ-25S	Total/NA	Water	EPA 300.0 R2.1	
680-231212-1 MSD	SCH-PZ-25S	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 428116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-2	SCH-PZ-25I	Total/NA	Water	EPA 300.0 R2.1	
MB 180-428116/69	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-428116/70	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-231325-A-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
680-231325-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 428492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total Recoverable	Water	3005A	
680-231212-2	SCH-PZ-25I	Total Recoverable	Water	3005A	
MB 180-428492/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-428492/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-152698-F-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
180-152698-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 428561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	7470A	
MB 180-428561/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428561/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-231078-E-9-C MS	Matrix Spike	Total/NA	Water	7470A	
680-231078-E-9-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 428715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	EPA 7470A	428561
MB 180-428561/1-A	Method Blank	Total/NA	Water	EPA 7470A	428561
LCS 180-428561/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428561
680-231078-E-9-C MS	Matrix Spike	Total/NA	Water	EPA 7470A	428561
680-231078-E-9-D MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	428561

Analysis Batch: 429827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total Recoverable	Water	EPA 6020B	428492
680-231212-2	SCH-PZ-25I	Total Recoverable	Water	EPA 6020B	428492
MB 180-428492/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428492
LCS 180-428492/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428492
180-152698-F-1-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428492
180-152698-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428492

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer - Additional PZ

Job ID: 680-231212-1

Metals

Analysis Batch: 430527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total Recoverable	Water	EPA 6020B	428492
680-231212-2	SCH-PZ-25I	Total Recoverable	Water	EPA 6020B	428492
MB 180-428492/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428492
LCS 180-428492/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428492
180-152698-F-1-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428492
180-152698-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428492

General Chemistry

Analysis Batch: 427795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-2	SCH-PZ-25I	Total/NA	Water	SM 2540C	
MB 180-427795/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-427795/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-152506-C-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 427853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	SM2320 B	
680-231212-2	SCH-PZ-25I	Total/NA	Water	SM2320 B	
MB 180-427853/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-427853/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-427853/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-427853/4	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427853/27	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-427853/3	Lab Control Sample	Total/NA	Water	SM2320 B	
680-231213-D-7 DU	Duplicate	Total/NA	Water	SM2320 B	

Analysis Batch: 428299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	SM 2540C	
MB 180-428299/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-428299/2	Lab Control Sample	Total/NA	Water	SM 2540C	
680-231212-1 DU	SCH-PZ-25S	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 428379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231212-1	SCH-PZ-25S	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Job ID: 680-231212-1
Project/Site: CCR - Plant Scherer - Additional PZ

Client Sample ID: SCH-PZ-25S
Lab Sample ID: 680-231212-1
Date Collected: 02/27/23 15:55
Matrix: Water
Date Received: 03/01/23 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	427773	03/02/23 06:06	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428492	03/08/23 10:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			429827	03/19/23 00:56	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428492	03/08/23 10:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 09:52	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	428561	03/09/23 11:00	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 14:08	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428299	03/06/23 19:19	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427853	03/01/23 19:02	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428379	02/27/23 15:55	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-PZ-25I
Lab Sample ID: 680-231212-2
Date Collected: 02/27/23 14:20
Matrix: Water
Date Received: 03/01/23 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 10:39	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428492	03/08/23 10:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			429827	03/19/23 00:59	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428492	03/08/23 10:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430527	03/25/23 09:55	RSK	EET PIT
	Instrument ID: NEMO									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	427795	03/01/23 17:33	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			427853	03/01/23 19:06	MAM	EET PIT
	Instrument ID: PCTITRATOR									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231212-1
Project/Site: CCR - Plant Scherer - Additional PZ

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-23
US Fish & Wildlife	US Federal Programs	058448	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23
Wisconsin	State	998027800	08-31-23

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

Method Summary

Client: Southern Company
Job ID: 680-231212-1
Project/Site: CCR - Plant Scherer - Additional PZ

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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


FedEx
RT 198
FZ 197
10:30 A
0105
03*01
Part # 159469-434 MTW EXP 11/23
680-231212 Waybill
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE:28FEB23
ACTWGT: 55.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
DEPT:
FedEx Express
2 of 2
MPS# 0263 6072 5517 0105
Mstr# 6072 5517 0090
0201
WED - 01 MAR 10:30A
PRIORITY OVERNIGHT
XN AGCA
15238
PA-US
PIT
Uncorrected Temp
Thermometer ID
CF
Initials
PT-WS-R001 Effective 11/8/16

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963 7058 fax 412 963 2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: 02/28/23	COC No
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier:	1 of 1 COCs
Southern Company	Analysis Turnaround Time			Sampler
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below 3-5 days			Walk-in Client
JAbraham@southernco com	☐ 2 weeks			Lab Sampling
Project Name: CCR - Plant Scherer Additional PZ	☐ 1 week			
Site Georgia	☐ 2 days			Job / SDG No
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K	Co only	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Sample Specific Notes.
SCH-PZ-25S	2/27/2023	15 55	G	WG	6	N	N	X	X	X	X		X	X	pH= 4 84
SCH-PZ-25I	2/27/2023	14 20	G	WG	3	N	N	X			X	X	X	X	pH= 6 65
Preservation Used: 1=Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	4	1	1	

to St. Louis

680-231212 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No . | Cooler Temp (°C) Obs'd._____ Corr'd:_____ Therm ID No _____

Relinquished by: Mark Mann	Company: WSP	Date/Time: 0800 02/28/2023	Received by: [redacted]	Company: [redacted]	Date/Time: [redacted] 8:00
Relinquished by: Elaine Cook	Company: [redacted]	Date/Time: [redacted]	Received by: [redacted]	Company: [redacted]	Date/Time: 2-28-23 10:10
Relinquished by: [redacted]	Company	Date/Time: 2-28-23 10:10	Received in Laboratory by: D Watson EPI HB	Company	Date/Time: 3-1-23 9:24

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231212-1

Login Number: 231212

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/7/2023 5:30:58 PM

JOB DESCRIPTION

CCR - Plant Scherer AP1 PZs

JOB NUMBER

680-231323-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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Authorization

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Definitions/Glossary

Client: Southern Company
Job ID: 680-231323-1
Project/Site: CCR - Plant Scherer AP1 PZs

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-231323-1	SCH-PZ-44I	Water	02/28/23 10:30	03/02/23 10:00

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-1

Job ID: 680-231323-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-231323-1

Receipt
The sample was received on 3/2/2023 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-428116 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

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

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-1

Client Sample ID: SCH-PZ-44I

Date Collected: 02/28/23 10:30
Date Received: 03/02/23 10:00

Lab Sample ID: 680-231323-1

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.7**		1.0	0.71	mg/L			03/05/23 02:21	1
Fluoride	**0.034**	**J**	0.10	0.026	mg/L			03/05/23 02:21	1
Sulfate	**1.7**		1.0	0.76	mg/L			03/05/23 02:21	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/09/23 09:10	03/22/23 18:51	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/09/23 09:10	03/22/23 18:51	1
Barium	**0.0080**	**J**	0.010	0.0031	mg/L		03/09/23 09:10	03/22/23 18:51	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/09/23 09:10	03/22/23 18:51	1
Boron	<0.060		0.080	0.060	mg/L		03/09/23 09:10	04/06/23 13:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/09/23 09:10	03/22/23 18:51	1
Calcium	**21**		0.50	0.13	mg/L		03/09/23 09:10	03/22/23 18:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/09/23 09:10	03/22/23 18:51	1
Cobalt	**0.0019**	**J**	0.0025	0.00026	mg/L		03/09/23 09:10	03/22/23 18:51	1
Iron	**0.36**		0.050	0.028	mg/L		03/09/23 09:10	03/22/23 18:51	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/09/23 09:10	03/22/23 18:51	1
Lithium	**0.014**		0.0050	0.0013	mg/L		03/09/23 09:10	03/22/23 18:51	1
Magnesium	**10**		0.50	0.050	mg/L		03/09/23 09:10	03/22/23 18:51	1
Manganese	**0.13**		0.0050	0.0013	mg/L		03/09/23 09:10	03/22/23 18:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/09/23 09:10	03/22/23 18:51	1
Potassium	**2.1**		0.50	0.16	mg/L		03/09/23 09:10	03/22/23 18:51	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/09/23 09:10	03/22/23 18:51	1
Sodium	**5.4**		0.50	0.18	mg/L		03/09/23 09:10	03/22/23 18:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/09/23 09:10	03/22/23 18:51	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/08/23 14:55	03/09/23 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 EPA 9034)	<2.1		3.0	2.1	mg/L		03/04/23 07:28	03/04/23 12:02	1
Total Dissolved Solids (SM 2540C)	**120**		10	10	mg/L			03/06/23 17:37	1
Ferric Iron (SM 3500)	**0.36**		0.050	0.0061	mg/L			03/22/23 11:28	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	**110**		5.0	5.0	mg/L			03/06/23 14:39	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	**110**		5.0	5.0	mg/L			03/06/23 14:39	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/06/23 14:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.54**				SU			02/28/23 10:30	1
Ferrous Iron	**0.0**				mg/L			02/28/23 10:30	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-428116/36
Matrix: Water
Analysis Batch: 428116

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/04/23 22:39	1
Fluoride	<0.026		0.10	0.026	mg/L			03/04/23 22:39	1
Sulfate	<0.76		1.0	0.76	mg/L			03/04/23 22:39	1

Lab Sample ID: LCS 180-428116/37
Matrix: Water
Analysis Batch: 428116

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.75		mg/L		110	90 - 110
Sulfate	50.0	52.4		mg/L		105	90 - 110

Lab Sample ID: 680-231319-A-11 MS
Matrix: Water
Analysis Batch: 428116

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14		50.0	61.5		mg/L		96	90 - 110
Fluoride	0.067	J	2.50	2.73		mg/L		107	90 - 110
Sulfate	170	F1	50.0	215	F1	mg/L		89	90 - 110

Lab Sample ID: 680-231319-A-11 MSD
Matrix: Water
Analysis Batch: 428116

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14		50.0	61.5		mg/L		96	90 - 110	0	20
Fluoride	0.067	J	2.50	2.72		mg/L		106	90 - 110	1	20
Sulfate	170	F1	50.0	214	F1	mg/L		87	90 - 110	1	20

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

Lab Sample ID: MB 180-428646/1-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/09/23 09:10	03/22/23 17:37	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/09/23 09:10	03/22/23 17:37	1
Barium	<0.0031		0.010	0.0031	mg/L		03/09/23 09:10	03/22/23 17:37	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/09/23 09:10	03/22/23 17:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/09/23 09:10	03/22/23 17:37	1
Calcium	<0.13		0.50	0.13	mg/L		03/09/23 09:10	03/22/23 17:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/09/23 09:10	03/22/23 17:37	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/09/23 09:10	03/22/23 17:37	1
Iron	<0.028		0.050	0.028	mg/L		03/09/23 09:10	03/22/23 17:37	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/09/23 09:10	03/22/23 17:37	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/09/23 09:10	03/22/23 17:37	1
Magnesium	<0.050		0.50	0.050	mg/L		03/09/23 09:10	03/22/23 17:37	1

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

Lab Sample ID: MB 180-428646/1-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0013		0.0050	0.0013	mg/L		03/09/23 09:10	03/22/23 17:37	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/09/23 09:10	03/22/23 17:37	1
Potassium	<0.16		0.50	0.16	mg/L		03/09/23 09:10	03/22/23 17:37	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/09/23 09:10	03/22/23 17:37	1
Sodium	<0.18		0.50	0.18	mg/L		03/09/23 09:10	03/22/23 17:37	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/09/23 09:10	03/22/23 17:37	1

Lab Sample ID: MB 180-428646/1-A
Matrix: Water
Analysis Batch: 431647

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/09/23 09:10	04/06/23 09:29	1

Lab Sample ID: LCS 180-428646/2-A
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.271		mg/L		109	80 - 120
Arsenic	1.00	1.01		mg/L		101	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.482		mg/L		96	80 - 120
Cadmium	0.500	0.511		mg/L		102	80 - 120
Calcium	25.0	27.7		mg/L		111	80 - 120
Chromium	0.500	0.514		mg/L		103	80 - 120
Cobalt	0.500	0.497		mg/L		99	80 - 120
Iron	5.00	5.24		mg/L		105	80 - 120
Lead	0.500	0.512		mg/L		102	80 - 120
Lithium	0.500	0.484		mg/L		97	80 - 120
Magnesium	25.0	25.4		mg/L		102	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120
Molybdenum	0.500	0.517		mg/L		103	80 - 120
Potassium	25.0	25.8		mg/L		103	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Sodium	25.0	25.7		mg/L		103	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LCS 180-428646/2-A
Matrix: Water
Analysis Batch: 431647

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.34		mg/L		107	80 - 120

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

Lab Sample ID: 680-231281-C-3-C MS
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.266		mg/L		107	75 - 125
Arsenic	<0.00028		1.00	0.995		mg/L		100	75 - 125
Barium	0.038		1.00	1.04		mg/L		100	75 - 125
Beryllium	<0.00027		0.500	0.474		mg/L		95	75 - 125
Cadmium	<0.00022		0.500	0.502		mg/L		100	75 - 125
Calcium	20		25.0	46.3		mg/L		106	75 - 125
Chromium	<0.0015		0.500	0.500		mg/L		100	75 - 125
Cobalt	0.010		0.500	0.501		mg/L		98	75 - 125
Iron	0.028	J	5.00	5.12		mg/L		102	75 - 125
Lead	<0.00038		0.500	0.500		mg/L		100	75 - 125
Lithium	<0.0013		0.500	0.478		mg/L		96	75 - 125
Magnesium	11		25.0	36.0		mg/L		99	75 - 125
Manganese	0.48		0.500	0.967		mg/L		97	75 - 125
Molybdenum	<0.00061		0.500	0.506		mg/L		101	75 - 125
Potassium	1.7		25.0	26.9		mg/L		101	75 - 125
Selenium	<0.00074		1.00	0.997		mg/L		100	75 - 125
Sodium	55		25.0	78.7		mg/L		93	75 - 125
Thallium	<0.00047		1.00	1.04		mg/L		104	75 - 125

Lab Sample ID: 680-231281-C-3-C MS
Matrix: Water
Analysis Batch: 431647

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.1		1.25	2.42		mg/L		108	75 - 125

Lab Sample ID: 680-231281-C-3-D MSD
Matrix: Water
Analysis Batch: 430208

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.269		mg/L		108	75 - 125	1	20
Arsenic	<0.00028		1.00	1.01		mg/L		101	75 - 125	1	20
Barium	0.038		1.00	1.05		mg/L		101	75 - 125	2	20
Beryllium	<0.00027		0.500	0.479		mg/L		96	75 - 125	1	20
Cadmium	<0.00022		0.500	0.511		mg/L		102	75 - 125	2	20
Calcium	20		25.0	46.5		mg/L		107	75 - 125	1	20
Chromium	<0.0015		0.500	0.514		mg/L		103	75 - 125	3	20
Cobalt	0.010		0.500	0.508		mg/L		100	75 - 125	1	20
Iron	0.028	J	5.00	5.18		mg/L		104	75 - 125	1	20
Lead	<0.00038		0.500	0.506		mg/L		101	75 - 125	1	20
Lithium	<0.0013		0.500	0.482		mg/L		96	75 - 125	1	20
Magnesium	11		25.0	36.4		mg/L		101	75 - 125	1	20
Manganese	0.48		0.500	0.961		mg/L		95	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.518		mg/L		104	75 - 125	2	20
Potassium	1.7		25.0	27.5		mg/L		103	75 - 125	2	20
Selenium	<0.00074		1.00	1.02		mg/L		102	75 - 125	2	20
Sodium	55		25.0	78.3		mg/L		92	75 - 125	1	20
Thallium	<0.00047		1.00	1.07		mg/L		107	75 - 125	3	20

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

Lab Sample ID: 680-231281-C-3-D MSD
Matrix: Water
Analysis Batch: 431647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 428646

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.1		1.25	2.60		mg/L		122	75 - 125	7	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-428562/1-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/08/23 14:55	03/09/23 14:31	1

Lab Sample ID: LCS 180-428562/2-A
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00242		mg/L		97	80 - 120

Lab Sample ID: 680-231213-C-16-B MS
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 428562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000899		mg/L		90	75 - 125

Lab Sample ID: 680-231213-C-16-C MSD
Matrix: Water
Analysis Batch: 428715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 428562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000944		mg/L		94	75 - 125	5	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-428108/2-A
Matrix: Water
Analysis Batch: 428121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/04/23 07:28	03/04/23 11:44	1

Lab Sample ID: LCS 180-428108/1-A
Matrix: Water
Analysis Batch: 428121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	18.0	15.9		mg/L		89	85 - 115

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 180-152856-F-1-B MS
Matrix: Water
Analysis Batch: 428121

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 428108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<2.1		18.0	15.9		mg/L		89	75 - 125

Lab Sample ID: 180-152856-F-1-C MSD
Matrix: Water
Analysis Batch: 428121

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 428108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<2.1		18.0	16.2		mg/L		90	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-428293/1
Matrix: Water
Analysis Batch: 428293

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/06/23 17:37	1

Lab Sample ID: LCS 180-428293/2
Matrix: Water
Analysis Batch: 428293

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	665	642		mg/L		97	85 - 115

Lab Sample ID: 680-231325-C-2 DU
Matrix: Water
Analysis Batch: 428293

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		244		mg/L		0	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-428325/5
Matrix: Water
Analysis Batch: 428325

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/06/23 13:24	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/06/23 13:24	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/06/23 13:24	1

Lab Sample ID: LCS 180-428325/4
Matrix: Water
Analysis Batch: 428325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	255	253		mg/L		99	90 - 110

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-428325/3
Matrix: Water
Analysis Batch: 428325

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			15.3	15.1		mg/L		98	75 - 125		

Lab Sample ID: 680-231319-D-7 DU
Matrix: Water
Analysis Batch: 428325

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	40			40.3		mg/L				1	20
Bicarbonate Alkalinity as CaCO3	40			40.3		mg/L				1	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

HPLC/IC

Analysis Batch: 428116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	EPA 300.0 R2.1	
MB 180-428116/36	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-428116/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
680-231319-A-11 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
680-231319-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 428562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	7470A	
MB 180-428562/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-428562/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-231213-C-16-B MS	Matrix Spike	Total/NA	Water	7470A	
680-231213-C-16-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 428646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total Recoverable	Water	3005A	
MB 180-428646/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-428646/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-231281-C-3-C MS	Matrix Spike	Total Recoverable	Water	3005A	
680-231281-C-3-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 428715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	EPA 7470A	428562
MB 180-428562/1-A	Method Blank	Total/NA	Water	EPA 7470A	428562
LCS 180-428562/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	428562
680-231213-C-16-B MS	Matrix Spike	Total/NA	Water	EPA 7470A	428562
680-231213-C-16-C MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	428562

Analysis Batch: 430208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total Recoverable	Water	EPA 6020B	428646
MB 180-428646/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428646
LCS 180-428646/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428646
680-231281-C-3-C MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428646
680-231281-C-3-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428646

Analysis Batch: 431647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total Recoverable	Water	EPA 6020B	428646
MB 180-428646/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	428646
LCS 180-428646/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	428646
680-231281-C-3-C MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	428646
680-231281-C-3-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	428646

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-1

General Chemistry

Prep Batch: 428108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	9030B	
MB 180-428108/2-A	Method Blank	Total/NA	Water	9030B	
LCS 180-428108/1-A	Lab Control Sample	Total/NA	Water	9030B	
180-152856-F-1-B MS	Matrix Spike	Total/NA	Water	9030B	
180-152856-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 428121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	EPA 9034	428108
MB 180-428108/2-A	Method Blank	Total/NA	Water	EPA 9034	428108
LCS 180-428108/1-A	Lab Control Sample	Total/NA	Water	EPA 9034	428108
180-152856-F-1-B MS	Matrix Spike	Total/NA	Water	EPA 9034	428108
180-152856-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 9034	428108

Analysis Batch: 428293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	SM 2540C	
MB 180-428293/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-428293/2	Lab Control Sample	Total/NA	Water	SM 2540C	
680-231325-C-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 428325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	SM2320 B	
MB 180-428325/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-428325/4	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-428325/3	Lab Control Sample	Total/NA	Water	SM2320 B	
680-231319-D-7 DU	Duplicate	Total/NA	Water	SM2320 B	

Analysis Batch: 430037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	SM 3500	

Field Service / Mobile Lab

Analysis Batch: 428379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-231323-1	SCH-PZ-44I	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-1

Client Sample ID: SCH-PZ-44I
Date Collected: 02/28/23 10:30
Date Received: 03/02/23 10:00

Lab Sample ID: 680-231323-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	428116	03/05/23 02:21	SNL	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	428646	03/09/23 09:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430208	03/22/23 18:51	RSK	EET PIT
	Instrument ID: A									
Total Recoverable	Prep	3005A			25 mL	25 mL	428646	03/09/23 09:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431647	04/06/23 13:36	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	428562	03/08/23 14:55	RSR	EET PIT
Total/NA	Analysis	EPA 7470A		1			428715	03/09/23 14:53	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Prep	9030B			50 mL	50 mL	428108	03/04/23 07:28	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			428121	03/04/23 12:02	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428293	03/06/23 17:37	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			430037	03/22/23 11:28	CRL	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			428325	03/06/23 14:39	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			428379	02/28/23 10:30	FDS	EET PIT
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-231323-1
Project/Site: CCR - Plant Scherer AP1 PZs

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-23 *
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23 *
Wisconsin	State	998027800	08-31-23

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

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer AP1 PZs

Job ID: 680-231323-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM 3500	Iron, Ferric	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

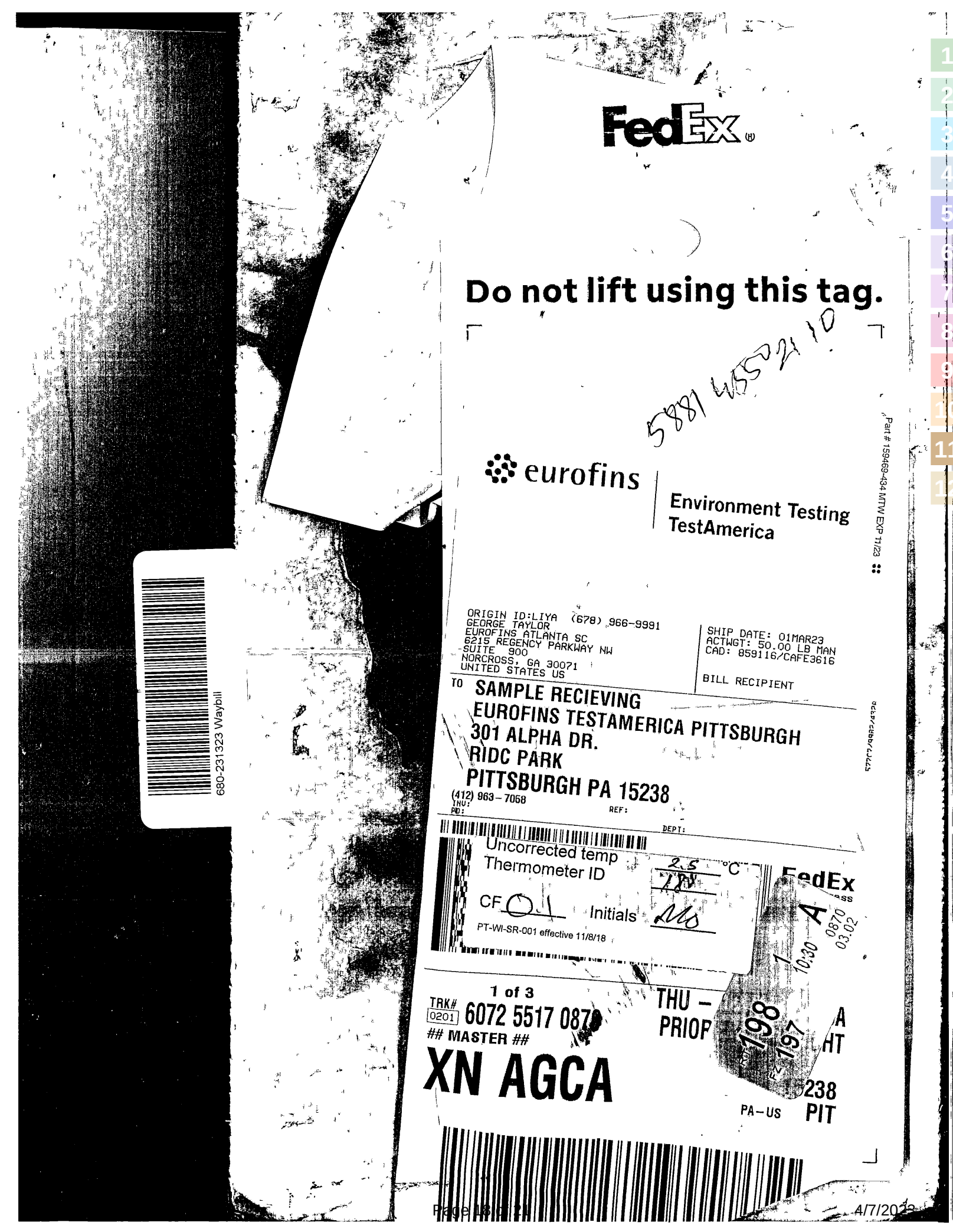
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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


FedEx
Do not lift using this tag.
5881 4552 1 10
eurofins
Environment Testing
TestAmerica
Part # 159469-434 MTW EXP 11/23
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS ATLANTA SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 01MAR23
ACTWGT: 50.00 LB MAN
CAD: 859116/CAFE3616
BILL RECIPIENT
TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
THU:
PO:
REF:
DEPT:
Uncorrected temp 2.5 °C
Thermometer ID 188
CF 0.1 Initials MO
PT-WI-SR-001 effective 11/8/18
FedEx
1 of 3
TRK# 0201 6072 5517 0870
MASTER
XN AGCA
THU -
PRIOR
PA-US
PIT
680-231323 Waybill

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

244- ATLANTA

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

03/01/23

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: ~~02/28/23~~	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: ~~AVER~~ Courier Nav	__1__ of __1__ COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below ___3-5 days___			Walk-in Client:
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer AP1 PZs	☐ 1 week			Job / SDG No.:
Site: Georgia	☐ 2 days			
Project #: 68027798	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes:
SCH-PZ-44I	2/28/2023	10:30	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6.54, Fe2= 0.0, collected at 10:30; analyzed 10:35
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	4	5	1	1	4	

680-231323 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by: Duane Dal / Dwayne Fulton	WSI	03/01/23 1015	Received by: Mike Greenwire	Courier Nav	3/1/23 811
Relinquished by: Mike Greenwire	Courier Nav	3/1/23 1015	Received by: Michael Meeks		3/1/23 813
Relinquished by: Michael Meeks		3/1/23 8	Received in Laboratory by: Sierra Worthington	ENSR	3/2/23 0950

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

4/7/2023

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963 7058 fax 412 963.2468

244- ATLANTA

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulation Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

03/01/23

Client Contact	Project Manager: Dawn Prell	Site Contact: Dawn Prell	Date: ~~02/28/23~~	COC No.
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: David Fuller	Carrier: ~~JWOD~~ Courier No	___1___ of __1__ COCs
Southern Company	**Analysis Turnaround Time**			Sampler:
241 Ralph McGill Blvd SE B10185	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Atlanta, GA 30308	TAT if different from Below ___3-5 days___			Walk-in Client
JAbraham@southernco.com	☐ 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer AP1 PZs	☐ 1 week			
Site Georgia	☐ 2 days			Job / SDG No.
Project #: 68027798	☐ 1 day			

Radium to

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	App III metals: B, Ca	App IV metals: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 + 228	Mg, Na, K, Mn	Sulfide	HCO3, CO3 Alkalinity	Cl, F, SO4, TDS	Fe total, Fe2, Fe3	Sample Specific Notes:
SCH-PZ-44I	2/28/2023	10 30	G	WG	8	N	N	X	X	X	X	X	X	X	X	pH= 6 54, Fe2= 0 0, collected at 10.30; analyzed 10.35
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	1	4	4	5	1	1	4	

680-231323 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: SCH-CCR-ASSMT-2023S1

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C). Obs'd _____ Corr'd._____ Therm ID No._____		
Relinquished by: Duane Ash / Dwayne Fulton	Company: WSI	Date/Time: 03/01/23 08:17	Received by: Mike Gremmie	Company: Courier No	Date/Time: 3/1/23 817
Relinquished by: Mike Gremmie	Company: Courier No	Date/Time: 3/1/23 10:15	Received by: Michael Mockel	Company:	Date/Time: 3/1/23 813
Relinquished by: Michael Mockel	Company	Date/Time: 3/1/23 8	Received in Laboratory by:	Company: FEDEX	Date/Time: 3-2-23 1000

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-231323-1

Login Number: 231323
List Number: 2
Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh
List Creation: 03/02/23 06:57 PM

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

APPENDIX B

Data Validation Summary

Quality Control Review of Analytical Data- Plant Scherer Ash Pond 1 (AP-1)
Submitted by Eurofins TestAmerica
February 2023

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Inc. for groundwater samples collected at Plant Scherer CCR Ash Pond 1 (AP-1) between February 21, 2023 and February 28, 2023. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1. In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma - Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions by Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (Standard Methods 2540C), Sulfide (EPA 9034), Iron, ferric (Standard Methods 3500FE-D), Alkalinity by Titration (Standard Methods 2320B), Radium-226 (USEPA Method 9315) and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (field and laboratory duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met with the exception of sulfate, TDS, and boron, as described in the qualification section below.

Accuracy: Laboratory goals for accuracy were met with the exception of fluoride, mercury, and sulfate, as described in the qualification section below.

Sensitivity: Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization. Detections were found in certain blank results, as described in the qualification sections below.

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

Holding Times: All holding time requirements were met in accordance with specific analytical methods.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of high levels of imprecision or inaccuracy, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the data validation process.

J	The analyte was reported above the method detection limit and below the reporting limit. The concentration reported is an estimated value.
J+	The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased high.
J-	The analyte was reported below the method detection limit; however, the concentration reported is an estimated value that may be biased low.
U	The analyte was not detected above the method detection limit.
UJ	The analyte was not detected above the method detection limit and the associated numerical value is the approximate concentration of the analyte in the sample.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to data from samples collected at the site and reported in sample delivery groups (SDGs) qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain sulfate, TDS, and boron results from SDGs 680-231043-1 and 680-231078-1 were qualified as estimated (J) when the field duplicate relative percent difference (RPD) exceeded criteria.

- The fluoride results for samples SCH-SGWC-8 and SCH-PZ-13S from SDG 680-231043-1, and 680-231078-1, respectively were qualified as estimated, biased high when the MS and/or MSD recoveries exceeded laboratory criteria. Sulfate from sample SCH-PZ-13S in SDG 680-231078-1 was also qualified as estimated due to biased high MS and/or MSD recoveries. Mercury from sample SCH-SGWC-12 from SDG 680-231076-1 was qualified as estimated, non-detect (UJ) due to MS and/or MSD recovering biased low.

- Certain fluoride, sulfate, and boron results in SDGs 680-230928-1, 680-231043-1, 680-231076-1, 680-231078-1, and 680-231081-1 were qualified as non-detect (U) when the analyte was detected at a similar level in an associated blank sample. As shown in Table 2, if the original sample results were below the reporting limit (RL), the results were qualified as non-detect (U) and the RL was reported. If the original sample results were greater than the RL, the original results were reported and were U qualified.

- Radium-228 in sample SCH-PZ-43S from SDG 680-231081-2 was qualified as non-detect (U) and the minimum detectable concentration was raised to the original sample result, when the analyte was detected at a similar concentration in an associated field and laboratory blank samples or the two-sigma (2σ) Normalized Absolute Difference (NAD) of the original results is less than 2.58. Total radium in sample SCH-PZ-43S from SDG 680-231081-2 was qualified as non-detect (U) when the associated Radium-228 was qualified U for blank contamination and the associated Radium-226 had no qualifications and was less than the minimum detectable concentration (MDC).

- Many of the sulfide results from samples belonging to SDGs 680-230928-1, 680-231043-1, 680-231076-1, and 680-231081-1 were qualified as either estimated (J) or non-detect, estimated (UJ) due to the sample collection process deviating from the standard operating procedure (SOP).

Golder reviewed the data from samples collected at Plant Scherer CCR AP-1 between February 21, 2023 and February 28, 2023 in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use. The data are considered usable for meeting project objectives and the results are considered valid.

REFERENCE

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

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

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data By Cold Vapor Atomic Absorption,* Revision 2.0.

TABLE 1

Sample Summary Table
SCS Plant Scherer

						Analyses								
SDGs	*Field Identification*	*Collection Date*	*Lab Identification*	*Matrix*	*QC Samples*	Field pH	Total Metals (EPA 6020B)	Mercury (EPA 7470A)	Anions (EPA 300.0)	Total Dissolved Solids (SM 2540C)	Alkalinity (SM 2320B)	Ferric Iron (SM 3500FE D)	Sulfide (EPA 9034)	Radium-226/ 228 (EPA 9315 & 9320)
680-230928-1	SCH-SGWA-1	2/21/2023	680-230928-1	WG	-	X	X	X	X	X	X	X	X	-
680-230928-1	SCH-AP1-FB-1	2/21/2023	680-230928-2	WQ	FB (SCH-SGWA-1)	X	X	X	X	X	X	-	X	-
680-230928-1	SCH-SGWA-5	2/21/2023	680-230928-3	WG	-	X	X	X	X	X	X	X	X	-
680-230928-1	SCH-AP1-EB-1	2/21/2023	680-230928-4	WQ	EB (SCH-SGWA-5)	X	X	X	X	X	X	-	X	-
680-230928-1	SCH-SGWA-3	2/21/2023	680-230928-5	WG	-	X	X	X	X	X	X	X	X	-
680-230928-2	SCH-SGWA-1	2/21/2023	680-230928-1	WG	-	-	-	-	-	-	-	-	-	X
680-230928-2	SCH-AP1-FB-1	2/21/2023	680-230928-2	WQ	FB (SCH-SGWA-1)	-	-	-	-	-	-	-	-	X
680-230928-2	SCH-SGWA-5	2/21/2023	680-230928-3	WG	-	-	-	-	-	-	-	-	-	X
680-230928-2	SCH-AP1-EB-1	2/21/2023	680-230928-4	WQ	EB (SCH-SGWA-5)	-	-	-	-	-	-	-	-	X
680-230928-2	SCH-SGWA-3	2/21/2023	680-230928-5	WG	-	-	-	-	-	-	-	-	-	X
680-231043-1	SCH-SGWA-2	2/22/2023	680-231043-1	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWA-4	2/22/2023	680-231043-2	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-6	2/22/2023	680-231043-3	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-7	2/22/2023	680-231043-4	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-8	2/22/2023	680-231043-5	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-9	2/22/2023	680-231043-6	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-10	2/22/2023	680-231043-7	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-11	2/22/2023	680-231043-8	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-17	2/22/2023	680-231043-9	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-18	2/22/2023	680-231043-10	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-19	2/22/2023	680-231043-11	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-SGWC-20	2/22/2023	680-231043-12	WG	-	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-AP1-FD-1	2/22/2023	680-231043-13	WQ	FD (SCH-GWC-10)	X	X	X	X	X	X	X	X	-
680-231043-1	SCH-AP1-FD-2	2/22/2023	680-231043-14	WQ	FD (SCH-GWC-11)	X	X	X	X	X	X	X	X	-
680-231043-2	SCH-SGWA-2	2/22/2023	680-231043-1	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWA-4	2/22/2023	680-231043-2	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-6	2/22/2023	680-231043-3	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-7	2/22/2023	680-231043-4	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-8	2/22/2023	680-231043-5	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-9	2/22/2023	680-231043-6	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-10	2/22/2023	680-231043-7	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-11	2/22/2023	680-231043-8	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-17	2/22/2023	680-231043-9	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-18	2/22/2023	680-231043-10	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-19	2/22/2023	680-231043-11	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-SGWC-20	2/22/2023	680-231043-12	WG	-	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-AP1-FD-1	2/22/2023	680-231043-13	WG	FD (SCH-SGWC-10)	-	-	-	-	-	-	-	-	X
680-231043-2	SCH-AP1-FD-2	2/22/2023	680-231043-14	WG	FD (SCH-SGWC-11)	-	-	-	-	-	-	-	-	X
680-231076-1	SCH-SGWC-12	2/23/2023	680-231076-1	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-13	2/23/2023	680-231076-2	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-14	2/23/2023	680-231076-3	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-15	2/23/2023	680-231076-4	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-16	2/23/2023	680-231076-5	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-21	2/23/2023	680-231076-6	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-22	2/23/2023	680-231076-7	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-23	2/23/2023	680-231076-8	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-24	2/23/2023	680-231076-9	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-SGWC-25	2/23/2023	680-231076-10	WG	-	X	X	X	X	X	X	X	X	-
680-231076-1	SCH-AP1-FB-2	2/23/2023	680-231076-11	WQ	FB (SCH-SGWC-13)	-	X	X	X	X	X	X	X	-
680-231076-1	SCH-AP1-EB-2	2/23/2023	680-231076-12	WQ	EB (SCH-SGWC-16)	-	X	X	X	X	X	X	X	-
680-231076-2	SCH-SGWC-12	2/23/2023	680-231076-1	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-13	2/23/2023	680-231076-2	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-14	2/23/2023	680-231076-3	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-15	2/23/2023	680-231076-4	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-16	2/23/2023	680-231076-5	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-21	2/23/2023	680-231076-6	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-22	2/23/2023	680-231076-7	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-23	2/23/2023	680-231076-8	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-24	2/23/2023	680-231076-9	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-SGWC-25	2/23/2023	680-231076-10	WG	-	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-AP1-FB-2	2/23/2023	680-231076-11	WQ	FB (SCH-SGWC-13)	-	-	-	-	-	-	-	-	X
680-231076-2	SCH-AP1-EB-2	2/23/2023	680-231076-12	WQ	EB (SCH-SGWC-16)	-	-	-	-	-	-	-	-	X
680-231078-1	SCH-PZ-13S	2/25/2023	680-231078-1	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-PZ-14S	2/25/2023	680-231078-2	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-PZ-17I	2/25/2023	680-231078-3	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-PZ-42I	2/25/2023	680-231078-4	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-PZ-41S	2/25/2023	680-231078-5	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-PZ-40I	2/25/2023	680-231078-6	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-PZ-39S	2/25/2023	680-231078-7	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-PZ-69I	2/25/2023	680-231078-8	WG	-	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-AP1-FD-3	2/25/2023	680-231078-9	WQ	FD (SCH-PZ-39S)	X	X	X	X	X	X	X	X	-
680-231078-1	SCH-AP1-FB-3	2/25/2023	680-231078-10	WQ	FB (SCH-PZ-41S)	X	X	X	X	X	X	X	X	-
680-231078-2	SCH-PZ-13S	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-PZ-14S	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-PZ-17I	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-PZ-42I	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-PZ-41S	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-PZ-40I	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-PZ-39S	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-PZ-69I	2/23/2023	680-231078-1	WG	-	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-AP1-FD-3	2/23/2023	680-231078-1	WG	FD (SCH-PZ-39S)	-	-	-	-	-	-	-	-	X
680-231078-2	SCH-AP1-FB-3	2/23/2023	680-231078-1	WQ	FB (SCH-PZ-41S)	-	-	-	-	-	-	-	-	X
680-231081-1	SCH-PZ-43S	2/24/2023	680-231081-1	WG	-	X	X	X	X	X	X	X	X	-
680-231081-1	SCH-AP1-EB-3	2/24/2023	680-231081-2	WQ	EB (SCH-PZ-43S)	X	X	X	X	X	X	X	X	-
680-231081-2	SCH-PZ-43S	2/24/2023	680-231081-1	WG	-	-	-	-	-	-	-	-	-	X
680-231081-2	SCH-AP1-EB-3	2/24/2023	680-231081-2	WQ	EB (SCH-PZ-43S)	-	-	-	-	-	-	-	-	X
680-231212-1	SCH-PZ-25S	2/27/2023	680-231212-1	WG	-	X	X	X	X	X	X	-	-	-
680-231212-1	SCH-PZ-25I	2/27/2023	680-231212-2	WG	-	X	X	-	X	X	X	-	-	-
680-231212-2	SCH-PZ-25S	2/27/2023	680-231212-1	WG	-	-	-	-	-	-	-	-	-	X
680-231323-1	SCH-PZ-44I	2/28/2023	680-231323-1	WG	-	X	X	X	X	X	X	X	X	-
680-231323-2	SCH-PZ-44I	2/28/2023	680-231323-1	WG	-	-	-	-	-	-	-	-	-	X

Abbreviations:
SDG- Sample Delivery Group
QC - Quality Control
GW - Groundwater
WQ - Water quality control
SW - Solid Waste
EPA - Environmental Protection Agency
FB - Field Blank
EB - Equipment Blank
FD - Field Duplicate

TABLE 2
Qualifier Summary Table
SCS Plant Scherer

SDG	*Sample Name*	*Constituent*	*New Result*	*New RL or MDC*	*Qualifier*	*Reason*
680-230928-1	SCH-SGWA-1	Fluoride	0.1	-	U	Field blank contamination
680-230928-1	SCH-SGWA-5	Fluoride	0.1	-	U	Equipment blank contamination
680-230928-1	SCH-SGWA-5	Sulfate	-	1.2	U	Equipment blank contamination
680-230928-1	SCH-SGWA-1	Sulfide	-	-	UJ	Deviation from SOP
680-230928-1	SCH-SGWA-5	Sulfide	-	-	UJ	Deviation from SOP
680-230928-1	SCH-SGWA-3	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-7	Boron	0.08	-	U	Method blank contamination
680-231043-1	SCH-SGWC-8	Boron	-	0.11	U	Method blank contamination
680-231043-1	SCH-SGWC-10	Boron	-	0.28	U	Method blank contamination
680-231043-1	SCH-SGWC-11	Boron	-	0.75	U	Method blank contamination
680-231043-1	SCH-SGWC-17	Boron	-	0.34	U	Method blank contamination
680-231043-1	SCH-AP1-FD-1	Boron	-	0.33	U	Method blank contamination
680-231043-1	SCH-AP1-FD-2	Boron	-	0.68	U	Method blank contamination
680-231043-1	SCH-SGWC-8	Fluoride	-	-	J+	MS/MSD recoveries outside criteria
680-231043-1	SCH-SGWA-2	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWA-4	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-6	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-7	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-8	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-9	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-10	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-11	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-17	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-18	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-19	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-20	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-AP1-FD-1	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-AP1-FD-2	Sulfide	-	-	UJ	Deviation from SOP
680-231043-1	SCH-SGWC-10	Sulfate	-	-	J	Field Duplicate RPD outside criteria
680-231043-1	SCH-AP1-FD-1	Sulfate	-	-	J	Field Duplicate RPD outside criteria
680-231043-1	SCH-AP1-FD-1	TDS	-	-	J	Field Duplicate RPD outside criteria
680-231043-1	SCH-SGWC-10	TDS	-	-	J	Field Duplicate RPD outside criteria
680-231076-1	SCH-SGWC-12	Boron	0.08	-	U	Method blank contamination
680-231076-1	SCH-SGWC-13	Boron	-	0.69	U	Method blank contamination
680-231076-1	SCH-SGWC-13	Fluoride	0.1	-	U	Field blank contamination
680-231076-1	SCH-SGWC-16	Fluoride	0.1	-	U	Equipment blank contamination
680-231076-1	SCH-SGWC-12	Mercury	-	-	UJ	MS/MSD recoveries outside criteria
680-231076-1	SCH-SGWC-12	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-13	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-14	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-15	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-16	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-21	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-22	Sulfide	-	-	J	Deviation from SOP
680-231076-1	SCH-SGWC-23	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-24	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-SGWC-25	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-AP1-FB-2	Sulfide	-	-	UJ	Deviation from SOP
680-231076-1	SCH-AP1-EB-2	Sulfide	-	-	UJ	Deviation from SOP
680-231078-1	SCH-PZ-39S	Fluoride	0.1	-	U	Field blank contamination
680-231078-1	SCH-PZ-13S	Fluoride	-	-	J+	MS/MSD recoveries outside criteria
680-231078-1	SCH-PZ-13S	Sulfate	-	-	J+	MS/MSD recoveries outside criteria
680-231078-1	SCH-AP1-FD-3	Boron	-	-	J	Field Duplicate RPD outside criteria
680-231078-1	SCH-PZ-41S	Boron	-	-	J	Field Duplicate RPD outside criteria
680-231081-1	SCH-PZ-43S	Fluoride	0.1	-	U	Equipment blank contamination
680-231081-1	SCH-PZ-43S	Sulfate	-	-	J-	MS/MSD recovery outside control limits
680-231081-1	SCH-AP1-EB-3	Sulfide	-	-	UJ	Deviation from SOP
680-231081-1	SCH-PZ-43S	Sulfide	-	-	UJ	Deviation from SOP
680-231081-2	SCH-PZ-43S	Radium 228	-	0.572	U	Method blank contamination
680-231081-2	SCH-PZ-43S	Total radium	-	0.602	U	Method blank contamination

Abbreviations:
RL : Reporting limit
MDC : Minimum detectable concentration
SDG : Sample delivery group
MS/MSD : Matrix Spike/Matrix Spike Duplicate

APPENDIX B

Laboratory Accreditation

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

Certifies That

02-00416

Eurofins Pittsburgh

301 Alpha Drive, Pittsburgh, PA, 15238

Having duly met the requirement of
The act of June 29, 2002 (P.L. 596, No. 90)
dealing with Environmental Laboratories Accreditation
(27 Pa. C.S. 4104-4113) and the
National Environmental Laboratory Accreditation Program Standard
is hereby approved as an

Accredited Laboratory

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

NELAP accreditation granted by the PA DEP to an environmental laboratory is conditioned upon continued compliance with the current edition of the NELAC Standard or TNI Standard and the following Subchapters and Sections of 25 Pa. Code Chapter 252: Subchapter A (relating to general provisions); Subchapter B (relating to application, fees and supporting documents); Subchapter E (relating to proficiency test study requirements); Subchapter F (relating to assessment requirements); Subchapter G (relating to miscellaneous provisions); Section 252.307; and Section 252.401.

Expiration Date: **04/30/2023**

Certificate Number: **020**

Annmarie Beach

Annmarie Beach, Chief
Laboratory Accreditation Program
Bureau of Laboratories

Continued accreditation status depends on successful ongoing participation in the program
Certificate not transferable Surrender upon revocation
To be conspicuously displayed at the Laboratory
Not valid unless accompanied by a valid Scope of Accreditation
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania
Customers are urged to verify the laboratory's current accreditation status
PA DEP is a NELAP recognized accreditation body

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Status Summary

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Status	Effective Date
EPA 1010	B	10234830	Ignitability	1780	NELAP	PA	Applied	03/15/2022
EPA 351.2	2.0	10065404	Kjeldahl nitrogen, total (TKN)	1795	NELAP	PA	Temp Withdraw	08/12/2021
EPA 365.4		10071202	Phosphorus, total	1910	NELAP	PA	Temp Withdraw	08/12/2021
SM 4500-Norg D - 2011	23rd ed.	20120234	Kjeldahl nitrogen, total (TKN)	1795	NELAP	PA	Temp Withdraw	08/12/2021
SM 5210B - 2016	**23rd ed.**	**20135028**	**Biochemical oxygen demand (BOD)**	**1530**	**NELAP**	**PA**	**Suspended**	**05/31/2022**
SM 5210B - 2016	**23rd ed.**	**20135028**	**Carbonaceous BOD (CBOD)**	**1555**	**NELAP**	**PA**	**Suspended**	**05/31/2022**

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Status	Effective Date
EPA 1010	B	10234830	Ignitability	1780	NELAP	PA	Applied	03/15/2022
EPA 351.2	2.0	10065404	Kjeldahl nitrogen, total (TKN)	1795	NELAP	PA	Temp Withdraw	08/12/2021
EPA 365.4		10071202	Phosphorus, total	1910	NELAP	PA	Temp Withdraw	08/12/2021

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The Laboratory Status Summary is not a continuation of the Scope of Accreditation. This Status Summary includes fields of accreditation for which the laboratory does not hold accreditation per the effective date listed above.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
ASTM D5057-90		30032145	Apparent specific gravity	8042	NELAP	PA	09/27/2010
ASTM D5057-90		30032145	Bulk density	8017	NELAP	PA	09/27/2010
EPA 1010	A	10234807	Ignitability	1780	NELAP	PA	03/04/2013
EPA 120.1		10006403	Conductivity	1610	NELAP	PA	11/15/2011
EPA 1311		10118806	Toxicity characteristic leaching procedure (TCLP)	1466	NELAP	PA	12/05/2013
EPA 160.4		10010409	Residue, volatile	1970	NELAP	PA	02/03/2016
EPA 1664	B	10261617	Non-polar material	1853	NELAP	PA	01/10/2014
EPA 1664	B	10261617	Oil and grease	1803	NELAP	PA	01/10/2014
EPA 180.1	2	10011800	Turbidity	2055	NELAP	PA	08/26/2006
EPA 200.7	4.4	10013806	Aluminum	1000	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Antimony	1005	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Arsenic	1010	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Barium	1015	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Beryllium	1020	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Boron	1025	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Cadmium	1030	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Calcium	1035	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Chromium	1040	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Cobalt	1050	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Copper	1055	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Iron	1070	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Lead	1075	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 200.7	4.4	10013806	Lithium	1080	NELAP	PA	09/05/2012
EPA 200.7	4.4	10013806	Magnesium	1085	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Manganese	1090	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Molybdenum	1100	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Nickel	1105	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Potassium	1125	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Selenium	1140	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Silica, as SiO2	1990	NELAP	PA	08/24/2005
EPA 200.7	4.4	10013806	Silver	1150	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Sodium	1155	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Strontium	1160	NELAP	PA	03/01/2007
EPA 200.7	4.4	10013806	Thallium	1165	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Tin	1175	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Titanium	1180	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Vanadium	1185	NELAP	PA	04/07/2005
EPA 200.7	4.4	10013806	Zinc	1190	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Aluminum	1000	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Antimony	1005	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Arsenic	1010	NELAP	PA	03/21/2012
EPA 200.8	5.4	10014605	Barium	1015	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Beryllium	1020	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Boron	1025	NELAP	PA	08/24/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 200.8	5.4	10014605	Cadmium	1030	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Calcium	1035	NELAP	PA	08/24/2005
EPA 200.8	5.4	10014605	Chromium	1040	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Cobalt	1050	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Copper	1055	NELAP	PA	11/15/2011
EPA 200.8	5.4	10014605	Iron	1070	NELAP	PA	08/24/2005
EPA 200.8	5.4	10014605	Lead	1075	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Lithium	1080	NELAP	PA	03/24/2017
EPA 200.8	5.4	10014605	Magnesium	1085	NELAP	PA	08/24/2005
EPA 200.8	5.4	10014605	Manganese	1090	NELAP	PA	01/22/2007
EPA 200.8	5.4	10014605	Molybdenum	1100	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Nickel	1105	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Phosphorus, total	1910	NELAP	PA	04/19/2018
EPA 200.8	5.4	10014605	Potassium	1125	NELAP	PA	08/24/2005
EPA 200.8	5.4	10014605	Selenium	1140	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Silica, as SiO2	1990	NELAP	PA	04/18/2006
EPA 200.8	5.4	10014605	Silver	1150	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Sodium	1155	NELAP	PA	08/24/2005
EPA 200.8	5.4	10014605	Strontium	1160	NELAP	PA	03/01/2007
EPA 200.8	5.4	10014605	Thallium	1165	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Thorium	1170	NELAP	PA	03/24/2017
EPA 200.8	5.4	10014605	Tin	1175	NELAP	PA	08/24/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 200.8	5.4	10014605	Titanium	1180	NELAP	PA	08/24/2005
EPA 200.8	5.4	10014605	Uranium (mass)	1184	NELAP	PA	03/24/2017
EPA 200.8	5.4	10014605	Vanadium	1185	NELAP	PA	04/07/2005
EPA 200.8	5.4	10014605	Zinc	1190	NELAP	PA	04/07/2005
EPA 245.1	3.0	10036609	Mercury	1095	NELAP	PA	04/07/2005
EPA 300.0	2.1	10053200	Bromide	1540	NELAP	PA	08/24/2005
EPA 300.0	2.1	10053200	Chloride	1575	NELAP	PA	04/07/2005
EPA 300.0	2.1	10053200	Fluoride	1730	NELAP	PA	08/24/2005
EPA 300.0	2.1	10053200	Nitrate as N	1810	NELAP	PA	04/07/2005
EPA 300.0	2.1	10053200	Nitrite as N	1840	NELAP	PA	04/07/2005
EPA 300.0	2.1	10053200	Orthophosphate as P	1870	NELAP	PA	04/07/2005
EPA 300.0	2.1	10053200	Sulfate	2000	NELAP	PA	04/07/2005
EPA 3005	A	10133207	Preconcentration under acid	1438	NELAP	PA	08/26/2006
EPA 3010	A	10133605	Hot plate acid digestion (HNO3 + HCl)	1420	NELAP	PA	08/26/2006
EPA 3060	A	10136604	Alkaline digestion of Cr(VI)	1402	NELAP	PA	08/26/2006
EPA 350.1	2.0	10063602	Ammonia as N	1515	NELAP	PA	07/11/2016
EPA 3510	C	10138202	Separatory funnel liquid-liquid extraction	1444	NELAP	PA	08/26/2006
EPA 3520	C	10139001	Continuous liquid-liquid extraction	1410	NELAP	PA	08/26/2006
EPA 353.2	2.0	10067604	Total nitrate-nitrite	1825	NELAP	PA	08/26/2006
EPA 3620	B	10145809	Florisil cleanup	1414	NELAP	PA	08/26/2006
EPA 3620	C	10146028	Florisil cleanup	1414	NELAP	PA	03/16/2009
EPA 3630	C	10146802	Silica gel cleanup	1446	NELAP	PA	05/22/2020

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 3640	A	10147203	Gel permeation cleanup (GPC)	1418	NELAP	PA	08/26/2006
EPA 3660	B	10148400	Sulfur cleanup	1456	NELAP	PA	08/26/2006
EPA 3665	A	10148808	Sulfuric acid/permanganate clean-up	2020	NELAP	PA	12/30/2019
EPA 410.4	2.0	10077404	Chemical oxygen demand (COD)	1565	NELAP	PA	10/13/2020
EPA 420.1		10079400	Total phenolics	1905	NELAP	PA	04/08/2008
EPA 5030	B	10153409	Aqueous-phase purge-and-trap	1406	NELAP	PA	03/04/2013
EPA 5030	C	10284603	Aqueous-phase purge-and-trap	1406	NELAP	PA	12/05/2013
EPA 6010	C	10155905	Metals by ICP/AES	1097	NELAP	PA	03/16/2009
EPA 6010	D	10155950	Metals by ICP/AES	1097	NELAP	PA	06/05/2019
EPA 6010	C	10155905	Aluminum	1000	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Antimony	1005	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Arsenic	1010	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Barium	1015	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Beryllium	1020	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Boron	1025	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Cadmium	1030	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Calcium	1035	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Chromium	1040	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Cobalt	1050	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Copper	1055	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Iron	1070	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Lead	1075	NELAP	PA	08/26/2006

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EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6010	C	10155905	Lithium	1080	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Magnesium	1085	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Manganese	1090	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Molybdenum	1100	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Nickel	1105	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Potassium	1125	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Selenium	1140	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Silica, as SiO2	1990	NELAP	PA	04/18/2006
EPA 6010	C	10155905	Silicon	1145	NELAP	PA	06/03/2010
EPA 6010	C	10155905	Silver	1150	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Sodium	1155	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Strontium	1160	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Thallium	1165	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Tin	1175	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Titanium	1180	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Vanadium	1185	NELAP	PA	08/26/2006
EPA 6010	C	10155905	Zinc	1190	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Aluminum	1000	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Antimony	1005	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Arsenic	1010	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Barium	1015	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Beryllium	1020	NELAP	PA	08/26/2006

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PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6010	D	10155950	Boron	1025	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Cadmium	1030	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Calcium	1035	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Chromium	1040	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Cobalt	1050	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Copper	1055	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Iron	1070	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Lead	1075	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Lithium	1080	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Magnesium	1085	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Manganese	1090	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Molybdenum	1100	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Nickel	1105	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Potassium	1125	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Selenium	1140	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Silica, as SiO2	1990	NELAP	PA	04/18/2006
EPA 6010	D	10155950	Silicon	1145	NELAP	PA	06/03/2010
EPA 6010	D	10155950	Silver	1150	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Sodium	1155	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Strontium	1160	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Thallium	1165	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Tin	1175	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6010	D	10155950	Titanium	1180	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Vanadium	1185	NELAP	PA	08/26/2006
EPA 6010	D	10155950	Zinc	1190	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Metals by ICP/MS	1098	NELAP	PA	03/16/2009
EPA 6020	B	10156420	Metals by ICP/MS	1098	NELAP	PA	06/05/2019
EPA 6020	A	10156419	Aluminum	1000	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Antimony	1005	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Arsenic	1010	NELAP	PA	03/21/2012
EPA 6020	A	10156419	Barium	1015	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Beryllium	1020	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Boron	1025	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Cadmium	1030	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Calcium	1035	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Chromium	1040	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Cobalt	1050	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Copper	1055	NELAP	PA	11/15/2011
EPA 6020	A	10156419	Iron	1070	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Lead	1075	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Lithium	1080	NELAP	PA	03/24/2017
EPA 6020	A	10156419	Magnesium	1085	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Manganese	1090	NELAP	PA	01/22/2007
EPA 6020	A	10156419	Molybdenum	1100	NELAP	PA	08/26/2006

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(412) 963-7058

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TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6020	A	10156419	Nickel	1105	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Phosphorus, total	1910	NELAP	PA	04/19/2018
EPA 6020	A	10156419	Potassium	1125	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Selenium	1140	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Silica, as SiO2	1990	NELAP	PA	04/18/2006
EPA 6020	A	10156419	Silicon	1145	NELAP	PA	06/03/2010
EPA 6020	A	10156419	Silver	1150	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Sodium	1155	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Strontium	1160	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Thallium	1165	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Thorium	1170	NELAP	PA	03/24/2017
EPA 6020	A	10156419	Tin	1175	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Titanium	1180	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Uranium (mass)	1184	NELAP	PA	03/24/2017
EPA 6020	A	10156419	Vanadium	1185	NELAP	PA	08/26/2006
EPA 6020	A	10156419	Zinc	1190	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Aluminum	1000	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Antimony	1005	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Arsenic	1010	NELAP	PA	03/21/2012
EPA 6020	B	10156420	Barium	1015	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Beryllium	1020	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Boron	1025	NELAP	PA	08/26/2006

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TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6020	B	10156420	Cadmium	1030	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Calcium	1035	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Chromium	1040	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Cobalt	1050	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Copper	1055	NELAP	PA	11/15/2011
EPA 6020	B	10156420	Iron	1070	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Lead	1075	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Lithium	1080	NELAP	PA	03/24/2017
EPA 6020	B	10156420	Magnesium	1085	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Manganese	1090	NELAP	PA	01/22/2007
EPA 6020	B	10156420	Molybdenum	1100	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Nickel	1105	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Phosphorus, total	1910	NELAP	PA	04/19/2018
EPA 6020	B	10156420	Potassium	1125	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Selenium	1140	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Silica, as SiO2	1990	NELAP	PA	04/18/2006
EPA 6020	B	10156420	Silicon	1145	NELAP	PA	06/03/2010
EPA 6020	B	10156420	Silver	1150	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Sodium	1155	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Strontium	1160	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Thallium	1165	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Thorium	1170	NELAP	PA	03/24/2017

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TNI Code: TNI02151
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Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6020	B	10156420	Tin	1175	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Titanium	1180	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Uranium (mass)	1184	NELAP	PA	03/24/2017
EPA 6020	B	10156420	Vanadium	1185	NELAP	PA	08/26/2006
EPA 6020	B	10156420	Zinc	1190	NELAP	PA	08/26/2006
EPA 608.3		10296614	4,4'-DDD	7355	NELAP	PA	04/19/2018
EPA 608.3		10296614	4,4'-DDE	7360	NELAP	PA	04/19/2018
EPA 608.3		10296614	4,4'-DDT	7365	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aldrin (HHDN)	7025	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aroclor-1016 (PCB-1016)	8880	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aroclor-1221 (PCB-1221)	8885	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aroclor-1232 (PCB-1232)	8890	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aroclor-1242 (PCB-1242)	8895	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aroclor-1248 (PCB-1248)	8900	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aroclor-1254 (PCB-1254)	8905	NELAP	PA	04/19/2018
EPA 608.3		10296614	Aroclor-1260 (PCB-1260)	8910	NELAP	PA	04/19/2018
EPA 608.3		10296614	Chlordane (tech.)	7250	NELAP	PA	12/30/2019
EPA 608.3		10296614	Dieldrin	7470	NELAP	PA	04/19/2018
EPA 608.3		10296614	Endosulfan I	7510	NELAP	PA	04/19/2018
EPA 608.3		10296614	Endosulfan II	7515	NELAP	PA	04/19/2018
EPA 608.3		10296614	Endosulfan sulfate	7520	NELAP	PA	04/19/2018
EPA 608.3		10296614	Endrin	7540	NELAP	PA	04/19/2018

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 608.3		10296614	Endrin aldehyde	7530	NELAP	PA	04/19/2018
EPA 608.3		10296614	Endrin ketone	7535	NELAP	PA	04/19/2018
EPA 608.3		10296614	Heptachlor	7685	NELAP	PA	04/19/2018
EPA 608.3		10296614	Heptachlor epoxide	7690	NELAP	PA	04/19/2018
EPA 608.3		10296614	Methoxychlor	7810	NELAP	PA	04/19/2018
EPA 608.3		10296614	Toxaphene (Chlorinated camphene)	8250	NELAP	PA	04/19/2018
EPA 608.3		10296614	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	NELAP	PA	04/19/2018
EPA 608.3		10296614	alpha-Chlordane	7240	NELAP	PA	04/19/2018
EPA 608.3		10296614	beta-BHC (beta-Hexachlorocyclohexane)	7115	NELAP	PA	04/19/2018
EPA 608.3		10296614	delta-BHC (delta-Hexachlorocyclohexane)	7105	NELAP	PA	04/19/2018
EPA 608.3		10296614	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	7120	NELAP	PA	04/19/2018
EPA 608.3		10296614	gamma-Chlordane	7245	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1,1-Trichloroethane	5160	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1,2-Trichloroethane	5165	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1-Dichloroethane	4630	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,1-Dichloropropene	4670	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,2,3-Trichlorobenzene	5150	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	04/19/2018

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	1,2,4-Trichlorobenzene	5155	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,2,4-Trimethylbenzene	5210	NELAP	PA	11/21/2018
EPA 624.1		10298121	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	11/21/2018
EPA 624.1		10298121	1,2-Dichloroethane	4635	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,2-Dichloroethene (total)	4705	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,2-Dichloropropane	4655	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,3,5-Trimethylbenzene	5215	NELAP	PA	11/21/2018
EPA 624.1		10298121	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	11/21/2018
EPA 624.1		10298121	1,3-Dichloropropane	4660	NELAP	PA	04/19/2018
EPA 624.1		10298121	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	11/21/2018
EPA 624.1		10298121	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	04/19/2018
EPA 624.1		10298121	2,2-Dichloropropane	4665	NELAP	PA	04/19/2018
EPA 624.1		10298121	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	04/19/2018
EPA 624.1		10298121	2-Chloroethyl vinyl ether	4500	NELAP	PA	04/19/2018
EPA 624.1		10298121	2-Chlorotoluene	4535	NELAP	PA	04/19/2018
EPA 624.1		10298121	2-Hexanone	4860	NELAP	PA	04/19/2018
EPA 624.1		10298121	4-Chlorotoluene	4540	NELAP	PA	04/19/2018
EPA 624.1		10298121	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	09/14/2021
EPA 624.1		10298121	Acetone	4315	NELAP	PA	04/19/2018

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	Acrolein (Propenal)	4325	NELAP	PA	04/19/2018
EPA 624.1		10298121	Acrylonitrile	4340	NELAP	PA	04/19/2018
EPA 624.1		10298121	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	04/19/2018
EPA 624.1		10298121	Benzene	4375	NELAP	PA	04/19/2018
EPA 624.1		10298121	Bromobenzene	4385	NELAP	PA	04/19/2018
EPA 624.1		10298121	Bromochloromethane	4390	NELAP	PA	04/19/2018
EPA 624.1		10298121	Bromodichloromethane	4395	NELAP	PA	04/19/2018
EPA 624.1		10298121	Bromoform	4400	NELAP	PA	04/19/2018
EPA 624.1		10298121	Carbon disulfide	4450	NELAP	PA	04/19/2018
EPA 624.1		10298121	Carbon tetrachloride	4455	NELAP	PA	04/19/2018
EPA 624.1		10298121	Chlorobenzene	4475	NELAP	PA	04/19/2018
EPA 624.1		10298121	Chloroethane	4485	NELAP	PA	04/19/2018
EPA 624.1		10298121	Chloroform	4505	NELAP	PA	04/19/2018
EPA 624.1		10298121	Cyclohexane	4555	NELAP	PA	04/19/2018
EPA 624.1		10298121	Dibromochloromethane	4575	NELAP	PA	04/19/2018
EPA 624.1		10298121	Dibromomethane	4595	NELAP	PA	04/19/2018
EPA 624.1		10298121	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	04/19/2018
EPA 624.1		10298121	Dichlorofluoromethane (Freon 21)	4627	NELAP	PA	04/19/2018
EPA 624.1		10298121	Diethyl ether (Ethyl ether)	4725	NELAP	PA	04/19/2018
EPA 624.1		10298121	Ethyl methacrylate	4810	NELAP	PA	04/19/2018
EPA 624.1		10298121	Ethylbenzene	4765	NELAP	PA	04/19/2018
EPA 624.1		10298121	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	04/19/2018

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EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	Iodomethane (Methyl iodide)	4870	NELAP	PA	04/19/2018
EPA 624.1		10298121	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	04/19/2018
EPA 624.1		10298121	Isopropylbenzene (Cumene)	4900	NELAP	PA	04/19/2018
EPA 624.1		10298121	Methyl acetate	4940	NELAP	PA	04/19/2018
EPA 624.1		10298121	Methyl bromide (Bromomethane)	4950	NELAP	PA	04/19/2018
EPA 624.1		10298121	Methyl chloride (Chloromethane)	4960	NELAP	PA	04/19/2018
EPA 624.1		10298121	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	04/19/2018
EPA 624.1		10298121	Methylcyclohexane	4965	NELAP	PA	04/19/2018
EPA 624.1		10298121	Methylene chloride (Dichloromethane)	4975	NELAP	PA	04/19/2018
EPA 624.1		10298121	Naphthalene	5005	NELAP	PA	12/22/2020
EPA 624.1		10298121	Styrene	5100	NELAP	PA	04/19/2018
EPA 624.1		10298121	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	04/19/2018
EPA 624.1		10298121	Tetrahydrofuran (THF)	5120	NELAP	PA	04/19/2018
EPA 624.1		10298121	Toluene	5140	NELAP	PA	04/19/2018
EPA 624.1		10298121	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	04/19/2018
EPA 624.1		10298121	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	04/19/2018
EPA 624.1		10298121	Vinyl acetate	5225	NELAP	PA	04/19/2018
EPA 624.1		10298121	Vinyl chloride (Chloroethene)	5235	NELAP	PA	04/19/2018
EPA 624.1		10298121	Xylenes, total	5260	NELAP	PA	04/19/2018
EPA 624.1		10298121	cis-1,2-Dichloroethene	4645	NELAP	PA	04/19/2018
EPA 624.1		10298121	cis-1,3-Dichloropropene	4680	NELAP	PA	04/19/2018
EPA 624.1		10298121	m+p-Xylene	5240	NELAP	PA	04/19/2018

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PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	n-Butylbenzene	4435	NELAP	PA	04/19/2018
EPA 624.1		10298121	n-Hexane	4855	NELAP	PA	04/19/2018
EPA 624.1		10298121	n-Propylbenzene	5090	NELAP	PA	04/19/2018
EPA 624.1		10298121	o-Xylene	5250	NELAP	PA	04/19/2018
EPA 624.1		10298121	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	04/19/2018
EPA 624.1		10298121	sec-Butylbenzene	4440	NELAP	PA	04/19/2018
EPA 624.1		10298121	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	04/19/2018
EPA 624.1		10298121	tert-Butylbenzene	4445	NELAP	PA	04/19/2018
EPA 624.1		10298121	trans-1,2-Dichloroethene	4700	NELAP	PA	04/19/2018
EPA 624.1		10298121	trans-1,3-Dichloropropene	4685	NELAP	PA	04/19/2018
EPA 624.1		10298121	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,2,4-Trichlorobenzene	5155	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,2-Diphenylhydrazine	6220	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,3-Dinitrobenzene (1,3-DNB)	6160	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	04/19/2018
EPA 625.1		10300024	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	04/19/2018
EPA 625.1		10300024	1-Methylnaphthalene	6380	NELAP	PA	04/19/2018

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 020-004 expiration date 04/30/2023. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,4,5-Trichlorophenol	6835	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,4,6-Trichlorophenol	6840	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,4-Dichlorophenol	6000	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,4-Dimethylphenol	6130	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,4-Dinitrophenol	6175	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,6-Dichlorophenol	6005	NELAP	PA	04/19/2018
EPA 625.1		10300024	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	04/19/2018
EPA 625.1		10300024	2-Chloronaphthalene	5795	NELAP	PA	04/19/2018
EPA 625.1		10300024	2-Chlorophenol	5800	NELAP	PA	04/19/2018
EPA 625.1		10300024	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	04/19/2018
EPA 625.1		10300024	2-Methylnaphthalene	6385	NELAP	PA	04/19/2018
EPA 625.1		10300024	2-Methylphenol (o-Cresol)	6400	NELAP	PA	04/19/2018
EPA 625.1		10300024	2-Nitroaniline	6460	NELAP	PA	04/19/2018
EPA 625.1		10300024	2-Nitrophenol	6490	NELAP	PA	04/19/2018
EPA 625.1		10300024	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	04/19/2018
EPA 625.1		10300024	3,3'-Dichlorobenzidine	5945	NELAP	PA	04/19/2018
EPA 625.1		10300024	3-Nitroaniline	6465	NELAP	PA	04/19/2018
EPA 625.1		10300024	4-Bromophenyl phenyl ether	5660	NELAP	PA	04/19/2018

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	4-Chloro-3-methylphenol	5700	NELAP	PA	04/19/2018
EPA 625.1		10300024	4-Chloroaniline	5745	NELAP	PA	04/19/2018
EPA 625.1		10300024	4-Chlorophenyl phenyl ether	5825	NELAP	PA	04/19/2018
EPA 625.1		10300024	4-Nitroaniline	6470	NELAP	PA	04/19/2018
EPA 625.1		10300024	4-Nitrophenol	6500	NELAP	PA	04/19/2018
EPA 625.1		10300024	Acenaphthene	5500	NELAP	PA	04/19/2018
EPA 625.1		10300024	Acenaphthylene	5505	NELAP	PA	04/19/2018
EPA 625.1		10300024	Acetophenone	5510	NELAP	PA	04/19/2018
EPA 625.1		10300024	Acrylamide	4330	NELAP	PA	11/21/2018
EPA 625.1		10300024	Aniline	5545	NELAP	PA	04/19/2018
EPA 625.1		10300024	Anthracene	5555	NELAP	PA	04/19/2018
EPA 625.1		10300024	Atrazine	7065	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzaldehyde	5570	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzidine	5595	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzo[a]anthracene	5575	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzo[a]pyrene	5580	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzo[b]fluoranthene	5585	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzo[ghi]perylene	5590	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzo[k]fluoranthene	5600	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzoic acid	5610	NELAP	PA	04/19/2018
EPA 625.1		10300024	Benzyl alcohol	5630	NELAP	PA	04/19/2018
EPA 625.1		10300024	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	04/19/2018

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Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	Caprolactam	7180	NELAP	PA	04/19/2018
EPA 625.1		10300024	Carbazole	5680	NELAP	PA	04/19/2018
EPA 625.1		10300024	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	04/19/2018
EPA 625.1		10300024	Cresols (total)	5862	NELAP	PA	04/19/2018
EPA 625.1		10300024	Di-n-butyl phthalate	5925	NELAP	PA	04/19/2018
EPA 625.1		10300024	Di-n-octyl phthalate	6200	NELAP	PA	04/19/2018
EPA 625.1		10300024	Dibenzo[a,h]anthracene	5895	NELAP	PA	04/19/2018
EPA 625.1		10300024	Dibenzofuran	5905	NELAP	PA	04/19/2018
EPA 625.1		10300024	Diethyl phthalate	6070	NELAP	PA	04/19/2018
EPA 625.1		10300024	Dimethyl phthalate	6135	NELAP	PA	04/19/2018
EPA 625.1		10300024	Fluoranthene	6265	NELAP	PA	04/19/2018
EPA 625.1		10300024	Fluorene	6270	NELAP	PA	04/19/2018
EPA 625.1		10300024	Hexachlorobenzene	6275	NELAP	PA	04/19/2018
EPA 625.1		10300024	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	04/19/2018
EPA 625.1		10300024	Hexachlorocyclopentadiene	6285	NELAP	PA	04/19/2018
EPA 625.1		10300024	Hexachloroethane	4840	NELAP	PA	04/19/2018
EPA 625.1		10300024	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	04/19/2018
EPA 625.1		10300024	Isophorone	6320	NELAP	PA	04/19/2018
EPA 625.1		10300024	N-Nitrosodi-n-propylamine	6545	NELAP	PA	04/19/2018
EPA 625.1		10300024	N-Nitrosodimethylamine	6530	NELAP	PA	04/19/2018
EPA 625.1		10300024	N-Nitrosodiphenylamine	6535	NELAP	PA	04/19/2018
EPA 625.1		10300024	Naphthalene	5005	NELAP	PA	04/19/2018

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	Nitrobenzene	5015	NELAP	PA	04/19/2018
EPA 625.1		10300024	Pentachlorophenol (PCP)	6605	NELAP	PA	04/19/2018
EPA 625.1		10300024	Phenanthrene	6615	NELAP	PA	04/19/2018
EPA 625.1		10300024	Phenol	6625	NELAP	PA	04/19/2018
EPA 625.1		10300024	Pyrene	6665	NELAP	PA	04/19/2018
EPA 625.1		10300024	Pyridine	5095	NELAP	PA	04/19/2018
EPA 625.1		10300024	bis(2-Chloroethoxy)methane	5760	NELAP	PA	04/19/2018
EPA 625.1		10300024	bis(2-Chloroethyl) ether	5765	NELAP	PA	04/19/2018
EPA 625.1		10300024	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	04/19/2018
EPA 625.1		10300024	n-Decane	5875	NELAP	PA	04/19/2018
EPA 625.1		10300024	n-Hexadecane	6300	NELAP	PA	04/19/2018
EPA 625.1		10300024	n-Octadecane	6580	NELAP	PA	04/19/2018
EPA 7196	A	10162400	Chromium VI	1045	NELAP	PA	08/26/2006
EPA 7470	A	10165807	Mercury	1095	NELAP	PA	08/26/2006
EPA 8011		10173009	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	04/18/2006
EPA 8011		10173009	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	04/18/2006
EPA 8081	B	10178811	Organochlorine pesticides by GC/ECD	7937	NELAP	PA	01/01/2013
EPA 8081	B	10178811	2,4'-DDD	8580	NELAP	PA	04/18/2006
EPA 8081	B	10178811	2,4'-DDE	8585	NELAP	PA	04/18/2006
EPA 8081	B	10178811	2,4'-DDT	8590	NELAP	PA	04/18/2006
EPA 8081	B	10178811	4,4'-DDD	7355	NELAP	PA	08/26/2006

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301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8081	B	10178811	4,4'-DDE	7360	NELAP	PA	08/26/2006
EPA 8081	B	10178811	4,4'-DDT	7365	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Aldrin (HHDN)	7025	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Chlorbenside	7321	NELAP	PA	04/18/2006
EPA 8081	B	10178811	Chlordane (tech.)	7250	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Dacthal (DCPA)	8550	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Diallate (cis or trans)	7405	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Dieldrin	7470	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Endosulfan I	7510	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Endosulfan II	7515	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Endosulfan sulfate	7520	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Endrin	7540	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Endrin aldehyde	7530	NELAP	PA	11/07/2006
EPA 8081	B	10178811	Endrin ketone	7535	NELAP	PA	01/06/2006
EPA 8081	B	10178811	Heptachlor	7685	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Heptachlor epoxide	7690	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Hexachlorobenzene	6275	NELAP	PA	05/20/2011
EPA 8081	B	10178811	Isodrin	7725	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Methoxychlor	7810	NELAP	PA	01/06/2006
EPA 8081	B	10178811	Mirex	7870	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Oxychlordane	3890	NELAP	PA	04/08/2009
EPA 8081	B	10178811	Toxaphene (Chlorinated camphene)	8250	NELAP	PA	08/26/2006

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Laboratory Scope of Accreditation

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8081	B	10178811	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	NELAP	PA	08/26/2006
EPA 8081	B	10178811	alpha-Chlordane	7240	NELAP	PA	01/06/2006
EPA 8081	B	10178811	beta-BHC (beta-Hexachlorocyclohexane)	7115	NELAP	PA	11/04/2016
EPA 8081	B	10178811	cis-Nonachlor	7925	NELAP	PA	04/18/2006
EPA 8081	B	10178811	delta-BHC (delta-Hexachlorocyclohexane)	7105	NELAP	PA	08/26/2006
EPA 8081	B	10178811	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	7120	NELAP	PA	08/26/2006
EPA 8081	B	10178811	gamma-Chlordane	7245	NELAP	PA	01/06/2006
EPA 8081	B	10178811	trans-Nonachlor	7910	NELAP	PA	04/18/2006
EPA 8082	A	10179358	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ 206)	9095	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ 195)	9103	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ 170)	9065	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,3',4,4'-Hexachlorobiphenyl (BZ 128)	9020	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ 187)	9080	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ 183)	9075	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ 138)	9025	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ 180)	9134	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',6,6'-Heptachlorobiphenyl (BZ 184)	9139	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,2',3,4,5'-Pentachlorobiphenyl (BZ 87)	8975	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,5'-Tetrachlorobiphenyl (BZ 44)	8945	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',4,4',5,5'-Hexachlorobiphenyl (BZ 153)	9040	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',4,5'-Tetrachlorobiphenyl (BZ 49)	8950	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',4,5,5'-Pentachlorobiphenyl (BZ 101)	8980	NELAP	PA	08/26/2006

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8082	A	10179358	2,2',5,5'-Tetrachlorobiphenyl (BZ 52)	8955	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',5-Trichlorobiphenyl (BZ 18)	8930	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,3',4,4',5'-Pentachlorobiphenyl (BZ 123)	9000	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3',4,4',5,5'-Hexachlorobiphenyl (BZ 167)	9055	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3',4,4',5-Pentachlorobiphenyl (BZ 118)	8995	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,3',4,4'-Tetrachlorobiphenyl (BZ 66)	8960	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,3,3',4,4',5'-Hexachlorobiphenyl (BZ 157)	9045	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ 189)	9085	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3,3',4,4',5-Hexachlorobiphenyl (BZ 156)	9050	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,3,3',4,4'-Pentachlorobiphenyl (BZ 105)	8985	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,3,4,4',5-Pentachlorobiphenyl (BZ 114)	9005	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,4'-Dichlorobiphenyl (BZ 8)	9256	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,4,4'-Trichlorobiphenyl (BZ 28)	9252	NELAP	PA	04/13/2009
EPA 8082	A	10179358	3,3',4,4',5,5'-Hexachlorobiphenyl (BZ 169)	9060	NELAP	PA	04/13/2009
EPA 8082	A	10179358	3,3',4,4',5-Pentachlorobiphenyl (BZ 126)	9015	NELAP	PA	09/06/2012
EPA 8082	A	10179358	3,3',4,4'-Tetrachlorobiphenyl (BZ 77)	8965	NELAP	PA	04/13/2009
EPA 8082	A	10179358	3,4,4',5-Tetrachlorobiphenyl (BZ 81)	8970	NELAP	PA	04/25/2014
EPA 8082	A	10179358	Aroclor-1016 (PCB-1016)	8880	NELAP	PA	08/26/2006
EPA 8082	A	10179358	Aroclor-1221 (PCB-1221)	8885	NELAP	PA	08/26/2006
EPA 8082	A	10179358	Aroclor-1232 (PCB-1232)	8890	NELAP	PA	08/26/2006
EPA 8082	A	10179358	Aroclor-1242 (PCB-1242)	8895	NELAP	PA	08/26/2006
EPA 8082	A	10179358	Aroclor-1248 (PCB-1248)	8900	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 020-004 expiration date 04/30/2023. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8082	A	10179358	Aroclor-1254 (PCB-1254)	8905	NELAP	PA	08/26/2006
EPA 8082	A	10179358	Aroclor-1260 (PCB-1260)	8910	NELAP	PA	08/26/2006
EPA 8082	A	10179358	Aroclor-1262 (PCB-1262)	8912	NELAP	PA	04/08/2008
EPA 8082	A	10179358	Aroclor-1268 (PCB-1268)	8913	NELAP	PA	04/08/2008
EPA 8082	A	10179358	Decachlorobiphenyl	9105	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Organophosphorus compounds by GC/NPD	7939	NELAP	PA	04/08/2009
EPA 8141	B	10182204	Azinphos-methyl (Guthion)	7075	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Bolstar (Sulprofos)	7125	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Chlorpyrifos	7300	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Coumaphos	7315	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Demeton	7390	NELAP	PA	04/08/2009
EPA 8141	B	10182204	Demeton-O	7395	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Demeton-S	7385	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Diazinon (Spectracide)	7410	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Dichlorovos (DDVP, Dichlorvos)	8610	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Dimethoate	7475	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Disulfoton	8625	NELAP	PA	08/26/2006
EPA 8141	B	10182204	EPN (Santox)	7550	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Ethoprop (Prophos)	7570	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Famphur	7580	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Fensulfothion	7600	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Fenthion	7605	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8141	B	10182204	Malathion	7770	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Methyl parathion (Parathion, methyl)	7825	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Mevinphos	7850	NELAP	PA	08/26/2006
EPA 8141	B	10182204	O,O,O-Triethyl phosphorothioate	8290	NELAP	PA	03/01/2007
EPA 8141	B	10182204	Parathion, ethyl (Ethyl parathion, Parathion)	7955	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Phorate (Thimet)	7985	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Ronnel	8110	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Stirophos (Tetrachlorovinphos)	8140	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Sulfotepp (Tetraethyl dithiopyrophosphate)	8155	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Thionazine (Thionazin, Zinophos)	8235	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Tokuthion (Prothiophos)	8245	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Trichloronate	8275	NELAP	PA	08/26/2006
EPA 8151	A	10183207	Chlorinated herbicides by GC/ECD	8542	NELAP	PA	04/08/2009
EPA 8151	A	10183207	2,4,5-T	8655	NELAP	PA	08/26/2006
EPA 8151	A	10183207	2,4,5-TP (Silvex)	8650	NELAP	PA	08/26/2006
EPA 8151	A	10183207	2,4-D	8545	NELAP	PA	08/26/2006
EPA 8151	A	10183207	2,4-DB (Butoxon)	8560	NELAP	PA	08/26/2006
EPA 8151	A	10183207	Dalapon (2,2-Dichloropropionic acid)	8555	NELAP	PA	08/26/2006
EPA 8151	A	10183207	Dicamba	8595	NELAP	PA	08/26/2006
EPA 8151	A	10183207	Dichloroprop (Dichlorprop)	8605	NELAP	PA	08/26/2006
EPA 8151	A	10183207	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	8620	NELAP	PA	08/26/2006
EPA 8151	A	10183207	MCPA	7775	NELAP	PA	08/26/2006

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Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8151	A	10183207	MCPP (Mecoprop)	7780	NELAP	PA	08/26/2006
EPA 8151	A	10183207	Pentachlorophenol (PCP)	6605	NELAP	PA	08/26/2006
EPA 8260	C	10307003	VOCs by GC/MS	5242	NELAP	PA	12/05/2013
EPA 8260	D	10307127	VOCs by GC/MS	5242	NELAP	PA	06/05/2019
EPA 8260	C	10307003	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	04/18/2006
EPA 8260	C	10307003	1,1,1-Trichloroethane	5160	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	04/18/2006
EPA 8260	C	10307003	1,1,2-Trichloroethane	5165	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,1-Dichloroethane	4630	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,1-Dichloropropene	4670	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2,3-Trichlorobenzene	5150	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2,4-Trichlorobenzene	5155	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2,4-Trimethylbenzene	5210	NELAP	PA	11/21/2018
EPA 8260	C	10307003	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	04/18/2006
EPA 8260	C	10307003	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	11/21/2018
EPA 8260	C	10307003	1,2-Dichloroethane	4635	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2-Dichloroethene (total)	4705	NELAP	PA	03/01/2007

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Eurofins Pittsburgh
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Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	1,2-Dichloropropane	4655	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,3,5-Trichlorobenzene	6800	NELAP	PA	04/08/2009
EPA 8260	C	10307003	1,3,5-Trimethylbenzene	5215	NELAP	PA	11/21/2018
EPA 8260	C	10307003	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	11/21/2018
EPA 8260	C	10307003	1,3-Dichloropropane	4660	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	11/21/2018
EPA 8260	C	10307003	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	08/26/2006
EPA 8260	C	10307003	2,2,4-Trimethylpentane (Iso-octane)	5220	NELAP	PA	12/05/2007
EPA 8260	C	10307003	2,2-Dichloropropane	4665	NELAP	PA	08/26/2006
EPA 8260	C	10307003	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	04/18/2006
EPA 8260	C	10307003	2-Chloroethyl vinyl ether	4500	NELAP	PA	08/26/2006
EPA 8260	C	10307003	2-Chlorotoluene	4535	NELAP	PA	08/26/2006
EPA 8260	C	10307003	2-Hexanone	4860	NELAP	PA	01/06/2006
EPA 8260	C	10307003	4-Chlorotoluene	4540	NELAP	PA	08/26/2006
EPA 8260	C	10307003	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	09/14/2021
EPA 8260	C	10307003	Acetone	4315	NELAP	PA	01/06/2006
EPA 8260	C	10307003	Acetonitrile	4320	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Acrolein (Propenal)	4325	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Acrylonitrile	4340	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Benzene	4375	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Benzyl chloride	5635	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Bromobenzene	4385	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Bromochloromethane	4390	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Bromodichloromethane	4395	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Bromoform	4400	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Carbon disulfide	4450	NELAP	PA	01/06/2006
EPA 8260	C	10307003	Carbon tetrachloride	4455	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Chlorobenzene	4475	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Chloroethane	4485	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Chloroform	4505	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Cyclohexane	4555	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Dibromochloromethane	4575	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Dibromomethane	4595	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Dichlorofluoromethane (Freon 21)	4627	NELAP	PA	04/08/2009
EPA 8260	C	10307003	Diethyl ether (Ethyl ether)	4725	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Ethyl acrylate	4760	NELAP	PA	12/05/2007
EPA 8260	C	10307003	Ethyl methacrylate	4810	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Ethylbenzene	4765	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Heptane	4825	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Iodomethane (Methyl iodide)	4870	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Isopropyl alcohol (2-Propanol)	4895	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Isopropylbenzene (Cumene)	4900	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Methacrylonitrile	4925	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Methyl acetate	4940	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Methyl bromide (Bromomethane)	4950	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Methyl chloride (Chloromethane)	4960	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Methylcyclohexane	4965	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Methylene chloride (Dichloromethane)	4975	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Methylmethacrylate	4990	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Naphthalene	5005	NELAP	PA	12/22/2020
EPA 8260	C	10307003	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Styrene	5100	NELAP	PA	01/06/2006
EPA 8260	C	10307003	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Tetrahydrofuran (THF)	5120	NELAP	PA	04/22/2010
EPA 8260	C	10307003	Toluene	5140	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Vinyl acetate	5225	NELAP	PA	01/06/2006
EPA 8260	C	10307003	Vinyl chloride (Chloroethene)	5235	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Xylenes, total	5260	NELAP	PA	03/30/2006

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Laboratory Scope of Accreditation

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Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	cis-1,2-Dichloroethene	4645	NELAP	PA	08/26/2006
EPA 8260	C	10307003	cis-1,3-Dichloropropene	4680	NELAP	PA	08/26/2006
EPA 8260	C	10307003	m+p-Xylene	5240	NELAP	PA	08/24/2005
EPA 8260	C	10307003	m-Xylene	5245	NELAP	PA	08/26/2006
EPA 8260	C	10307003	n-Butylbenzene	4435	NELAP	PA	08/26/2006
EPA 8260	C	10307003	n-Hexane	4855	NELAP	PA	12/05/2007
EPA 8260	C	10307003	n-Propylbenzene	5090	NELAP	PA	08/26/2006
EPA 8260	C	10307003	o-Xylene	5250	NELAP	PA	08/24/2005
EPA 8260	C	10307003	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	08/26/2006
EPA 8260	C	10307003	p-Xylene	5255	NELAP	PA	08/26/2006
EPA 8260	C	10307003	sec-Butylbenzene	4440	NELAP	PA	08/26/2006
EPA 8260	C	10307003	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	04/08/2008
EPA 8260	C	10307003	tert-Butylbenzene	4445	NELAP	PA	08/26/2006
EPA 8260	C	10307003	trans-1,2-Dichloroethene	4700	NELAP	PA	08/26/2006
EPA 8260	C	10307003	trans-1,3-Dichloropropene	4685	NELAP	PA	08/26/2006
EPA 8260	C	10307003	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	04/18/2006
EPA 8260	D	10307127	1,1,1-Trichloroethane	5160	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	04/18/2006
EPA 8260	D	10307127	1,1,2-Trichloroethane	5165	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,1-Dichloroethane	4630	NELAP	PA	08/26/2006

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,1-Dichloropropene	4670	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2,3-Trichlorobenzene	5150	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2,4-Trichlorobenzene	5155	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2,4-Trimethylbenzene	5210	NELAP	PA	11/21/2018
EPA 8260	D	10307127	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	04/18/2006
EPA 8260	D	10307127	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	11/21/2018
EPA 8260	D	10307127	1,2-Dichloroethane	4635	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2-Dichloroethene (total)	4705	NELAP	PA	03/01/2007
EPA 8260	D	10307127	1,2-Dichloropropane	4655	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,3,5-Trichlorobenzene	6800	NELAP	PA	04/08/2009
EPA 8260	D	10307127	1,3,5-Trimethylbenzene	5215	NELAP	PA	11/21/2018
EPA 8260	D	10307127	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	11/21/2018
EPA 8260	D	10307127	1,3-Dichloropropane	4660	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	11/21/2018
EPA 8260	D	10307127	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	08/26/2006
EPA 8260	D	10307127	2,2,4-Trimethylpentane (Iso-octane)	5220	NELAP	PA	12/05/2007
EPA 8260	D	10307127	2,2-Dichloropropane	4665	NELAP	PA	08/26/2006
EPA 8260	D	10307127	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	04/18/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	2-Chloroethyl vinyl ether	4500	NELAP	PA	08/26/2006
EPA 8260	D	10307127	2-Chlorotoluene	4535	NELAP	PA	08/26/2006
EPA 8260	D	10307127	2-Hexanone	4860	NELAP	PA	01/06/2006
EPA 8260	D	10307127	4-Chlorotoluene	4540	NELAP	PA	08/26/2006
EPA 8260	D	10307127	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	09/14/2021
EPA 8260	D	10307127	Acetone	4315	NELAP	PA	01/06/2006
EPA 8260	D	10307127	Acetonitrile	4320	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Acrolein (Propenal)	4325	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Acrylonitrile	4340	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Benzene	4375	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Benzyl chloride	5635	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Bromobenzene	4385	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Bromochloromethane	4390	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Bromodichloromethane	4395	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Bromoform	4400	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Carbon disulfide	4450	NELAP	PA	01/06/2006
EPA 8260	D	10307127	Carbon tetrachloride	4455	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Chlorobenzene	4475	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Chloroethane	4485	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Chloroform	4505	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	08/26/2006

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Eurofins Pittsburgh
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Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Cyclohexane	4555	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Dibromochloromethane	4575	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Dibromomethane	4595	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Dichlorofluoromethane (Freon 21)	4627	NELAP	PA	04/08/2009
EPA 8260	D	10307127	Diethyl ether (Ethyl ether)	4725	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Ethyl acrylate	4760	NELAP	PA	12/05/2007
EPA 8260	D	10307127	Ethyl methacrylate	4810	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Ethylbenzene	4765	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Heptane	4825	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Iodomethane (Methyl iodide)	4870	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Isopropyl alcohol (2-Propanol)	4895	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Isopropylbenzene (Cumene)	4900	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Methacrylonitrile	4925	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Methyl acetate	4940	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Methyl bromide (Bromomethane)	4950	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Methyl chloride (Chloromethane)	4960	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Methylcyclohexane	4965	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Methylene chloride (Dichloromethane)	4975	NELAP	PA	08/26/2006

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Methylmethacrylate	4990	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Naphthalene	5005	NELAP	PA	12/22/2020
EPA 8260	D	10307127	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Styrene	5100	NELAP	PA	01/06/2006
EPA 8260	D	10307127	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Tetrahydrofuran (THF)	5120	NELAP	PA	04/22/2010
EPA 8260	D	10307127	Toluene	5140	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Vinyl acetate	5225	NELAP	PA	01/06/2006
EPA 8260	D	10307127	Vinyl chloride (Chloroethene)	5235	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Xylenes, total	5260	NELAP	PA	03/30/2006
EPA 8260	D	10307127	cis-1,2-Dichloroethene	4645	NELAP	PA	08/26/2006
EPA 8260	D	10307127	cis-1,3-Dichloropropene	4680	NELAP	PA	08/26/2006
EPA 8260	D	10307127	m+p-Xylene	5240	NELAP	PA	08/24/2005
EPA 8260	D	10307127	m-Xylene	5245	NELAP	PA	08/26/2006
EPA 8260	D	10307127	n-Butylbenzene	4435	NELAP	PA	08/26/2006
EPA 8260	D	10307127	n-Hexane	4855	NELAP	PA	12/05/2007
EPA 8260	D	10307127	n-Propylbenzene	5090	NELAP	PA	08/26/2006
EPA 8260	D	10307127	o-Xylene	5250	NELAP	PA	08/24/2005
EPA 8260	D	10307127	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	08/26/2006
EPA 8260	D	10307127	p-Xylene	5255	NELAP	PA	08/26/2006

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	sec-Butylbenzene	4440	NELAP	PA	08/26/2006
EPA 8260	D	10307127	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	04/08/2008
EPA 8260	D	10307127	tert-Butylbenzene	4445	NELAP	PA	08/26/2006
EPA 8260	D	10307127	trans-1,2-Dichloroethene	4700	NELAP	PA	08/26/2006
EPA 8260	D	10307127	trans-1,3-Dichloropropene	4685	NELAP	PA	08/26/2006
EPA 8260	D	10307127	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	08/26/2006
EPA 8270	E	10242543	SOCs by GC/MS	6687	NELAP	PA	06/05/2019
EPA 8270	D	10186035	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	04/18/2006
EPA 8270	D	10186035	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,2,4-Trichlorobenzene	5155	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,2-Dinitrobenzene (1,2-DNB)	6155	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,2-Diphenylhydrazine	6220	NELAP	PA	04/18/2006
EPA 8270	D	10186035	1,3,5-Trinitrobenzene (1,3,5-TNB)	6885	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,3-Dinitrobenzene (1,3-DNB)	6160	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,4-Dinitrobenzene (1,4-DNB)	6165	NELAP	PA	04/21/2022
EPA 8270	D	10186035	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	04/18/2006
EPA 8270	D	10186035	1,4-Naphthoquinone	6420	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,4-Phenylenediamine	6630	NELAP	PA	12/05/2007
EPA 8270	D	10186035	1-Methylnaphthalene	6380	NELAP	PA	04/08/2009

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Pittsburgh, PA 15238
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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	1-Naphthylamine (alpha-Naphthylamine)	6425	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	04/18/2006
EPA 8270	D	10186035	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	04/18/2006
EPA 8270	D	10186035	2,3,5,6-Tetrachlorophenol	6740	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,3,7,8-TCDD (Dioxin) (screen)	9619	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,4,5-Trichlorophenol	6835	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,4,6-Trichlorophenol	6840	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,4-Dichlorophenol	6000	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,4-Dimethylphenol	6130	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,4-Dinitrophenol	6175	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,6-Dichlorophenol	6005	NELAP	PA	04/18/2006
EPA 8270	D	10186035	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Acetylaminofluorene	5515	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Chloronaphthalene	5795	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Chlorophenol	5800	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	04/18/2006
EPA 8270	D	10186035	2-Methylnaphthalene	6385	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Methylphenol (o-Cresol)	6400	NELAP	PA	01/06/2006
EPA 8270	D	10186035	2-Naphthylamine (beta-Naphthylamine)	6430	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Nitroaniline	6460	NELAP	PA	01/06/2006

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Laboratory Scope of Accreditation

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	2-Nitrophenol	6490	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Picoline (2-Methylpyridine)	5050	NELAP	PA	04/18/2006
EPA 8270	D	10186035	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	01/06/2006
EPA 8270	D	10186035	3,3'-Dichlorobenzidine	5945	NELAP	PA	08/26/2006
EPA 8270	D	10186035	3,3'-Dimethylbenzidine	6120	NELAP	PA	04/18/2006
EPA 8270	D	10186035	3-Methylcholanthrene	6355	NELAP	PA	08/26/2006
EPA 8270	D	10186035	3-Nitroaniline	6465	NELAP	PA	04/18/2006
EPA 8270	D	10186035	4,4'-Methylenebis(2-chloroaniline)	6365	NELAP	PA	04/18/2006
EPA 8270	D	10186035	4-Aminobiphenyl	5540	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Bromophenyl phenyl ether	5660	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Chloro-3-methylphenol	5700	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Chloroaniline	5745	NELAP	PA	01/06/2006
EPA 8270	D	10186035	4-Chlorophenol	5805	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Chlorophenyl phenyl ether	5825	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Dimethylaminoazobenzene (Dimethylaminoazobenzene)	6105	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Nitroaniline	6470	NELAP	PA	04/18/2006
EPA 8270	D	10186035	4-Nitrophenol	6500	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Nitroquinoline-1-oxide	6510	NELAP	PA	08/26/2006
EPA 8270	D	10186035	5-Nitro-o-toluidine	6570	NELAP	PA	08/26/2006
EPA 8270	D	10186035	6-Methylchrysene	6112	NELAP	PA	12/05/2007
EPA 8270	D	10186035	7,12-Dimethylbenz(a)anthracene	6115	NELAP	PA	08/26/2006

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Acenaphthene	5500	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Acenaphthylene	5505	NELAP	PA	10/27/2010
EPA 8270	D	10186035	Acetophenone	5510	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Acrylamide	4330	NELAP	PA	11/21/2018
EPA 8270	D	10186035	Aniline	5545	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Anthracene	5555	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Aramite	5560	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Atrazine	7065	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Benzaldehyde	5570	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Benzidine	5595	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Benzo[a]anthracene	5575	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Benzo[a]pyrene	5580	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Benzo[b]fluoranthene	5585	NELAP	PA	11/15/2011
EPA 8270	D	10186035	Benzo[ghi]perylene	5590	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Benzo[k]fluoranthene	5600	NELAP	PA	11/15/2011
EPA 8270	D	10186035	Benzoic acid	5610	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Benzyl alcohol	5630	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Caprolactam	7180	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Carbazole	5680	NELAP	PA	01/06/2006
EPA 8270	D	10186035	Chlorobenzilate	7260	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	08/26/2006

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Cresols (total)	5862	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Di-n-butyl phthalate	5925	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Di-n-octyl phthalate	6200	NELAP	PA	11/15/2011
EPA 8270	D	10186035	Diallate (cis or trans)	7405	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Dibenz[a,h]acridine	9354	NELAP	PA	12/05/2007
EPA 8270	D	10186035	Dibenzo[a,h]anthracene	5895	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Dibenzofuran	5905	NELAP	PA	01/06/2006
EPA 8270	D	10186035	Diethyl phthalate	6070	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Dimethoate	7475	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Dimethyl phthalate	6135	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	8620	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Disulfoton	8625	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Ethyl methanesulfonate	6260	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Famphur	7580	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Fluoranthene	6265	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Fluorene	6270	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Hexachlorobenzene	6275	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Hexachlorocyclopentadiene	6285	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Hexachloroethane	4840	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Hexachloropropene	6295	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Indene	6312	NELAP	PA	04/08/2009

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 020-004 expiration date 04/30/2023. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Isodrin	7725	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Isophorone	6320	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Isosafrole	6325	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Kepone	7740	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Methapyrilene	6345	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Methyl methanesulfonate	6375	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Methyl parathion (Parathion, methyl)	7825	NELAP	PA	04/18/2006
EPA 8270	D	10186035	N-Nitrosodi-n-butylamine	5025	NELAP	PA	04/18/2006
EPA 8270	D	10186035	N-Nitrosodi-n-propylamine	6545	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosodiethylamine	6525	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosodimethylamine	6530	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosodiphenylamine	6535	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosomethylethylamine	6550	NELAP	PA	04/18/2006
EPA 8270	D	10186035	N-Nitrosomorpholine	6555	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosopiperidine	6560	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosopyrrolidine	6565	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Naphthalene	5005	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Nitrobenzene	5015	NELAP	PA	08/26/2006
EPA 8270	D	10186035	O,O,O-Triethyl phosphorothioate	8290	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Parathion, ethyl (Ethyl parathion, Parathion)	7955	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Pentachlorobenzene	6590	NELAP	PA	04/18/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Pentachloroethane	5035	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Pentachloronitrobenzene (PCNB)	6600	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Pentachlorophenol (PCP)	6605	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Phenacetin	6610	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Phenanthrene	6615	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Phenol	6625	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Phorate (Thimet)	7985	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Pronamide (Kerb)	6650	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Pyrene	6665	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Pyridine	5095	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Safrole	6685	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Sulfotepp (Tetraethyl dithiopyrophosphate)	8155	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Thionazine (Thionazin, Zinophos)	8235	NELAP	PA	08/26/2006
EPA 8270	D	10186035	bis(2-Chloroethoxy)methane	5760	NELAP	PA	08/26/2006
EPA 8270	D	10186035	bis(2-Chloroethyl) ether	5765	NELAP	PA	08/26/2006
EPA 8270	D	10186035	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	08/26/2006
EPA 8270	D	10186035	n-Octadecane	6580	NELAP	PA	04/08/2009
EPA 8270	D	10186035	o-Toluidine (2-Toluidine, 2-Methylaniline)	5145	NELAP	PA	04/18/2006
EPA 8270	D	10186035	p-(Dimethylamino)azobenzene	6105	NELAP	PA	04/08/2009
EPA 8270	D	10186035	p-Phenylenediamine	6630	NELAP	PA	04/08/2009
EPA 8270	E	10242543	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	04/18/2006
EPA 8270	E	10242543	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	1,2,4-Trichlorobenzene	5155	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,2-Dinitrobenzene (1,2-DNB)	6155	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,2-Diphenylhydrazine	6220	NELAP	PA	04/18/2006
EPA 8270	E	10242543	1,3,5-Trinitrobenzene (1,3,5-TNB)	6885	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,3-Dinitrobenzene (1,3-DNB)	6160	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,4-Dinitrobenzene (1,4-DNB)	6165	NELAP	PA	04/21/2022
EPA 8270	E	10242543	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	04/18/2006
EPA 8270	E	10242543	1,4-Naphthoquinone	6420	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,4-Phenylenediamine	6630	NELAP	PA	12/05/2007
EPA 8270	E	10242543	1-Methylnaphthalene	6380	NELAP	PA	04/08/2009
EPA 8270	E	10242543	1-Naphthylamine (alpha-Naphthylamine)	6425	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	04/18/2006
EPA 8270	E	10242543	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	04/18/2006
EPA 8270	E	10242543	2,3,5,6-Tetrachlorophenol	6740	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,3,7,8-TCDD (Dioxin) (screen)	9619	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,4,5-Trichlorophenol	6835	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,4,6-Trichlorophenol	6840	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,4-Dichlorophenol	6000	NELAP	PA	08/26/2006

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301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	2,4-Dimethylphenol	6130	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,4-Dinitrophenol	6175	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,6-Dichlorophenol	6005	NELAP	PA	04/18/2006
EPA 8270	E	10242543	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Acetylaminofluorene	5515	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Chloronaphthalene	5795	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Chlorophenol	5800	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	04/18/2006
EPA 8270	E	10242543	2-Methylnaphthalene	6385	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Methylphenol (o-Cresol)	6400	NELAP	PA	01/06/2006
EPA 8270	E	10242543	2-Naphthylamine (beta-Naphthylamine)	6430	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Nitroaniline	6460	NELAP	PA	01/06/2006
EPA 8270	E	10242543	2-Nitrophenol	6490	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Picoline (2-Methylpyridine)	5050	NELAP	PA	04/18/2006
EPA 8270	E	10242543	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	01/06/2006
EPA 8270	E	10242543	3,3'-Dichlorobenzidine	5945	NELAP	PA	08/26/2006
EPA 8270	E	10242543	3,3'-Dimethylbenzidine	6120	NELAP	PA	04/18/2006
EPA 8270	E	10242543	3-Methylcholanthrene	6355	NELAP	PA	08/26/2006
EPA 8270	E	10242543	3-Nitroaniline	6465	NELAP	PA	04/18/2006
EPA 8270	E	10242543	4,4'-Methylenebis(2-chloroaniline)	6365	NELAP	PA	04/18/2006
EPA 8270	E	10242543	4-Aminobiphenyl	5540	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	4-Bromophenyl phenyl ether	5660	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Chloro-3-methylphenol	5700	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Chloroaniline	5745	NELAP	PA	01/06/2006
EPA 8270	E	10242543	4-Chlorophenol	5805	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Chlorophenyl phenyl ether	5825	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Dimethylaminoazobenzene (Dimethylaminoazobenzene)	6105	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Nitroaniline	6470	NELAP	PA	04/18/2006
EPA 8270	E	10242543	4-Nitrophenol	6500	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Nitroquinoline-1-oxide	6510	NELAP	PA	08/26/2006
EPA 8270	E	10242543	5-Nitro-o-toluidine	6570	NELAP	PA	08/26/2006
EPA 8270	E	10242543	6-Methylchrysene	6112	NELAP	PA	12/05/2007
EPA 8270	E	10242543	7,12-Dimethylbenz(a)anthracene	6115	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Acenaphthene	5500	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Acenaphthylene	5505	NELAP	PA	10/27/2010
EPA 8270	E	10242543	Acetophenone	5510	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Acrylamide	4330	NELAP	PA	11/21/2018
EPA 8270	E	10242543	Aniline	5545	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Anthracene	5555	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Aramite	5560	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Atrazine	7065	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Benzaldehyde	5570	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Benzidine	5595	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Benzo[a]anthracene	5575	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Benzo[a]pyrene	5580	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Benzo[b]fluoranthene	5585	NELAP	PA	11/15/2011
EPA 8270	E	10242543	Benzo[ghi]perylene	5590	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Benzo[k]fluoranthene	5600	NELAP	PA	11/15/2011
EPA 8270	E	10242543	Benzoic acid	5610	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Benzyl alcohol	5630	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Caprolactam	7180	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Carbazole	5680	NELAP	PA	01/06/2006
EPA 8270	E	10242543	Chlorobenzilate	7260	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Cresols (total)	5862	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Di-n-butyl phthalate	5925	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Di-n-octyl phthalate	6200	NELAP	PA	11/15/2011
EPA 8270	E	10242543	Diallate (cis or trans)	7405	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Dibenz[a,h]acridine	9354	NELAP	PA	12/05/2007
EPA 8270	E	10242543	Dibenzo[a,h]anthracene	5895	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Dibenzofuran	5905	NELAP	PA	01/06/2006
EPA 8270	E	10242543	Diethyl phthalate	6070	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Dimethoate	7475	NELAP	PA	08/26/2006

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Laboratory Scope of Accreditation

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Dimethyl phthalate	6135	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	8620	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Disulfoton	8625	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Ethyl methanesulfonate	6260	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Famphur	7580	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Fluoranthene	6265	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Fluorene	6270	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Hexachlorobenzene	6275	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Hexachlorocyclopentadiene	6285	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Hexachloroethane	4840	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Hexachloropropene	6295	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Indene	6312	NELAP	PA	04/08/2009
EPA 8270	E	10242543	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Isodrin	7725	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Isophorone	6320	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Isosafrole	6325	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Kepone	7740	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Methapyrilene	6345	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Methyl methanesulfonate	6375	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Methyl parathion (Parathion, methyl)	7825	NELAP	PA	04/18/2006
EPA 8270	E	10242543	N-Nitrosodi-n-butylamine	5025	NELAP	PA	04/18/2006

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	N-Nitrosodi-n-propylamine	6545	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosodiethylamine	6525	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosodimethylamine	6530	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosodiphenylamine	6535	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosomethylethylamine	6550	NELAP	PA	04/18/2006
EPA 8270	E	10242543	N-Nitrosomorpholine	6555	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosopiperidine	6560	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosopyrrolidine	6565	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Naphthalene	5005	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Nitrobenzene	5015	NELAP	PA	08/26/2006
EPA 8270	E	10242543	O,O,O-Triethyl phosphorothioate	8290	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Parathion, ethyl (Ethyl parathion, Parathion)	7955	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Pentachlorobenzene	6590	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Pentachloroethane	5035	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Pentachloronitrobenzene (PCNB)	6600	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Pentachlorophenol (PCP)	6605	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Phenacetin	6610	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Phenanthrene	6615	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Phenol	6625	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Phorate (Thimet)	7985	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Pronamide (Kerb)	6650	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Pyrene	6665	NELAP	PA	08/26/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Pyridine	5095	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Safrole	6685	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Sulfotepp (Tetraethyl dithiopyrophosphate)	8155	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Thionazine (Thionazin, Zinophos)	8235	NELAP	PA	08/26/2006
EPA 8270	E	10242543	bis(2-Chloroethoxy)methane	5760	NELAP	PA	08/26/2006
EPA 8270	E	10242543	bis(2-Chloroethyl) ether	5765	NELAP	PA	08/26/2006
EPA 8270	E	10242543	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	08/26/2006
EPA 8270	E	10242543	n-Octadecane	6580	NELAP	PA	04/08/2009
EPA 8270	E	10242543	o-Toluidine (2-Toluidine, 2-Methylaniline)	5145	NELAP	PA	04/18/2006
EPA 8270	E	10242543	p-(Dimethylamino)azobenzene	6105	NELAP	PA	04/08/2009
EPA 8270	E	10242543	p-Phenylenediamine	6630	NELAP	PA	04/08/2009
EPA 9010	C	10193109	Total cyanide	1645	NELAP	PA	03/04/2013
EPA 9014		10193836	Total cyanide	1645	NELAP	PA	12/14/2012
EPA 9030	B	10195605	Sulfide	2005	NELAP	PA	10/25/2018
EPA 9034		10196006	Sulfide	2005	NELAP	PA	10/25/2018
EPA 9040	C	10244403	pH	1900	NELAP	PA	08/26/2006
EPA 9050	A	10198808	Conductivity	1610	NELAP	PA	03/16/2009
EPA 9056	A	10199607	Anions by IC	1522	NELAP	PA	03/16/2009
EPA 9056	A	10199607	Bromide	1540	NELAP	PA	08/26/2006
EPA 9056	A	10199607	Chloride	1575	NELAP	PA	08/26/2006
EPA 9056	A	10199607	Fluoride	1730	NELAP	PA	08/26/2006
EPA 9056	A	10199607	Nitrate as N	1810	NELAP	PA	08/26/2006

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 9056	A	10199607	Nitrite as N	1840	NELAP	PA	08/26/2006
EPA 9056	A	10199607	Orthophosphate as P	1870	NELAP	PA	08/26/2006
EPA 9056	A	10199607	Sulfate	2000	NELAP	PA	08/26/2006
EPA 9060	A	10244823	Total organic carbon (TOC)	2040	NELAP	PA	04/22/2010
EPA 9065		10200405	Total phenolics	1905	NELAP	PA	04/08/2008
EPA 9070	A	10245020	Non-polar material	1853	NELAP	PA	12/30/2019
EPA 9070	A	10245020	Oil and grease	1803	NELAP	PA	04/04/2007
OIA 1677-09		60031450	Available cyanide	1523	NELAP	PA	08/24/2005
OIA 1677-09		60031450	Free cyanide	1640	NELAP	PA	04/19/2018
SM 2120B - 2011	23rd ed.	20039036	Color	1605	NELAP	PA	04/10/2007
SM 2310B - 2011	23rd ed.	20043838	Acidity as CaCO3	1500	NELAP	PA	11/21/2018
SM 2320B - 2011	23rd ed.	20045436	Alkalinity as CaCO3	1505	NELAP	PA	01/22/2007
SM 2510B - 2011	23rd ed.	20048435	Conductivity	1610	NELAP	PA	04/21/2010
SM 2520B - 2011	23rd ed.	20048639	Salinity	1975	NELAP	PA	04/08/2008
SM 2540B - 2015	23rd ed.	20048684	Residue, total	1950	NELAP	PA	04/10/2007
SM 2540C - 2015	23rd ed.	20050457	Residue, filterable (TDS)	1955	NELAP	PA	10/13/2010
SM 2540D - 2015	23rd ed.	20050446	Residue, nonfilterable (TSS)	1960	NELAP	PA	04/10/2007
SM 2540E - 2015	23rd ed.	20051234	Fixed suspended solids	1948	NELAP	PA	04/13/2009
SM 2540E - 2015	23rd ed.	20051234	Residue, volatile	1970	NELAP	PA	02/03/2016
SM 2540E - 2015	23rd ed.	20051234	Volatile suspended solids	2070	NELAP	PA	04/13/2009
SM 2540F - 2015	23rd ed.	20051621	Residue, settleable	1965	NELAP	PA	04/10/2007
SM 2580B - 2011	23rd ed.	20054040	Oxidation-reduction potential	1871	NELAP	PA	05/04/2009

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TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
SM 3500-Cr B - 2011	23rd ed.	20066039	Chromium VI	1045	NELAP	PA	08/24/2005
SM 4500-CN- C - 2016	23rd ed.	20095458	Cyanide distillation	1412	NELAP	PA	12/14/2012
SM 4500-CN- E - 2016	23rd ed.	20096224	Total cyanide	1645	NELAP	PA	12/14/2012
SM 4500-Cl G - 2011	23rd ed.	20081441	Total residual chlorine	1940	NELAP	PA	04/08/2008
SM 4500-H + B - 2011	23rd ed.	20105037	pH	1900	NELAP	PA	04/10/2007
SM 4500-O G - 2016	23rd ed.	20121420	Oxygen (dissolved)	1880	NELAP	PA	03/16/2009
SM 4500-S2- F - 2011	22nd ed.	20126414	Sulfide	2005	NELAP	PA	10/25/2018
SM 5310C - 2014	23rd ed.	20138630	Dissolved organic carbon (DOC)	1710	NELAP	PA	07/12/2010
SM 5310C - 2014	23rd ed.	20138630	Total organic carbon (TOC)	2040	NELAP	PA	07/12/2010
SM 5540C - 2011	23rd ed.	20144836	Surfactants as MBAS	2025	NELAP	PA	01/03/2022

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
ASTM D3987-85		30030730	Shake extraction of solid waste with water	1386	NELAP	PA	12/05/2007
ASTM D5057-90		30032145	Apparent specific gravity	8042	NELAP	PA	09/27/2010
ASTM D5057-90		30032145	Bulk density	8017	NELAP	PA	09/27/2010
EPA 1010	A	10234807	Ignitability	1780	NELAP	PA	04/09/2009
EPA 1020	B	10117109	Ignitability	1780	NELAP	PA	04/09/2009
EPA 1020	C	10117154	Ignitability	1780	NELAP	PA	04/21/2022
EPA 1311		10118806	Toxicity characteristic leaching procedure (TCLP)	1466	NELAP	PA	04/07/2005

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TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 1312		10119003	Synthetic precipitation leaching procedure (SPLP)	1460	NELAP	PA	04/18/2006
EPA 1664	B	10261617	Non-polar material	1853	NELAP	PA	04/21/2022
EPA 1664	B	10261617	Oil and grease	1803	NELAP	PA	07/14/2022
EPA 300.0	2.1	10053200	Bromide	1540	NELAP	PA	04/20/2011
EPA 300.0	2.1	10053200	Chloride	1575	NELAP	PA	04/20/2011
EPA 300.0	2.1	10053200	Fluoride	1730	NELAP	PA	04/20/2011
EPA 300.0	2.1	10053200	Nitrate as N	1810	NELAP	PA	04/20/2011
EPA 300.0	2.1	10053200	Nitrite as N	1840	NELAP	PA	04/20/2011
EPA 300.0	2.1	10053200	Orthophosphate as P	1870	NELAP	PA	04/20/2011
EPA 300.0	2.1	10053200	Sulfate	2000	NELAP	PA	04/20/2011
EPA 3005	A	10133207	Preconcentration under acid	1438	NELAP	PA	04/07/2005
EPA 3010	A	10133605	Hot plate acid digestion (HNO3 + HCl)	1420	NELAP	PA	04/07/2005
EPA 3050	B	10135601	Acid digestion of solids	1400	NELAP	PA	04/07/2005
EPA 3060	A	10136604	Alkaline digestion of Cr(VI)	1402	NELAP	PA	04/07/2005
EPA 350.1	2.0	10063602	Ammonia as N	1515	NELAP	PA	08/26/2006
EPA 3510	C	10138202	Separatory funnel liquid-liquid extraction	1444	NELAP	PA	04/07/2005
EPA 3520	C	10139001	Continuous liquid-liquid extraction	1410	NELAP	PA	04/07/2005
EPA 353.2	2.0	10067604	Total nitrate-nitrite	1825	NELAP	PA	04/20/2011
EPA 3541		10140406	Automated soxhlet extraction	1454	NELAP	PA	04/07/2005
EPA 3580	A	10143007	Waste dilution	1470	NELAP	PA	04/07/2005
EPA 3585		10143201	Waste dilution for VOCs	1472	NELAP	PA	04/07/2005
EPA 3620	B	10145809	Florisil cleanup	1414	NELAP	PA	04/18/2006

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 3620	C	10146028	Florisil cleanup	1414	NELAP	PA	04/09/2009
EPA 3630	C	10146802	Silica gel cleanup	1446	NELAP	PA	05/22/2020
EPA 3640	A	10147203	Gel permeation cleanup (GPC)	1418	NELAP	PA	04/18/2006
EPA 3660	B	10148400	Sulfur cleanup	1456	NELAP	PA	04/18/2006
EPA 3665	A	10148808	Sulfuric acid/permanganate clean-up	2020	NELAP	PA	04/18/2006
EPA 410.4	2.0	10077404	Chemical oxygen demand (COD)	1565	NELAP	PA	08/26/2006
EPA 5030	B	10153409	Aqueous-phase purge-and-trap	1406	NELAP	PA	03/04/2013
EPA 5035	A	10284807	Closed-system purge-and-trap (freezing option)	1391	NELAP	PA	06/15/2012
EPA 5035	A	10284807	Closed-system purge-and-trap (methanol option)	1392	NELAP	PA	06/15/2012
EPA 5035	A	10284807	Closed-system purge-and-trap (unpreserved)	1393	NELAP	PA	06/15/2012
EPA 5035		10154004	Closed-system purge-and-trap (bisulfate option)	1390	NELAP	PA	04/07/2005
EPA 5035		10154004	Closed-system purge-and-trap (methanol option)	1392	NELAP	PA	04/07/2005
EPA 5035		10154004	Closed-system purge-and-trap (unpreserved)	1393	NELAP	PA	08/24/2005
EPA 6010	C	10155905	Metals by ICP/AES	1097	NELAP	PA	04/09/2009
EPA 6010	D	10155950	Metals by ICP/AES	1097	NELAP	PA	06/05/2019
EPA 6010	C	10155905	Aluminum	1000	NELAP	PA	08/24/2005
EPA 6010	C	10155905	Antimony	1005	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Arsenic	1010	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Barium	1015	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Beryllium	1020	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Boron	1025	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Cadmium	1030	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6010	C	10155905	Calcium	1035	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Chromium	1040	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Cobalt	1050	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Copper	1055	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Iron	1070	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Lead	1075	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Lithium	1080	NELAP	PA	04/22/2010
EPA 6010	C	10155905	Magnesium	1085	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Manganese	1090	NELAP	PA	07/14/2022
EPA 6010	C	10155905	Molybdenum	1100	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Nickel	1105	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Potassium	1125	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Selenium	1140	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Silica, as SiO2	1990	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Silicon	1145	NELAP	PA	06/03/2010
EPA 6010	C	10155905	Silver	1150	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Sodium	1155	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Strontium	1160	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Thallium	1165	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Tin	1175	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Titanium	1180	NELAP	PA	04/07/2005
EPA 6010	C	10155905	Vanadium	1185	NELAP	PA	04/07/2005

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Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6010	C	10155905	Zinc	1190	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Aluminum	1000	NELAP	PA	08/24/2005
EPA 6010	D	10155950	Antimony	1005	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Arsenic	1010	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Barium	1015	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Beryllium	1020	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Boron	1025	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Cadmium	1030	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Calcium	1035	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Chromium	1040	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Cobalt	1050	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Copper	1055	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Iron	1070	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Lead	1075	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Lithium	1080	NELAP	PA	04/22/2010
EPA 6010	D	10155950	Magnesium	1085	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Manganese	1090	NELAP	PA	07/14/2022
EPA 6010	D	10155950	Molybdenum	1100	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Nickel	1105	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Potassium	1125	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Selenium	1140	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Silica, as SiO2	1990	NELAP	PA	04/07/2005

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Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6010	D	10155950	Silicon	1145	NELAP	PA	06/03/2010
EPA 6010	D	10155950	Silver	1150	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Sodium	1155	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Strontium	1160	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Thallium	1165	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Tin	1175	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Titanium	1180	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Vanadium	1185	NELAP	PA	04/07/2005
EPA 6010	D	10155950	Zinc	1190	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Metals by ICP/MS	1098	NELAP	PA	04/09/2009
EPA 6020	B	10156420	Metals by ICP/MS	1098	NELAP	PA	06/05/2019
EPA 6020	A	10156419	Aluminum	1000	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Antimony	1005	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Arsenic	1010	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Barium	1015	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Beryllium	1020	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Boron	1025	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Cadmium	1030	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Calcium	1035	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Chromium	1040	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Cobalt	1050	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Copper	1055	NELAP	PA	04/07/2005

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 020-004 expiration date 04/30/2023. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6020	A	10156419	Iron	1070	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Lead	1075	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Lithium	1080	NELAP	PA	03/24/2017
EPA 6020	A	10156419	Magnesium	1085	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Manganese	1090	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Molybdenum	1100	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Nickel	1105	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Potassium	1125	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Selenium	1140	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Silica, as SiO2	1990	NELAP	PA	04/18/2006
EPA 6020	A	10156419	Silicon	1145	NELAP	PA	06/03/2010
EPA 6020	A	10156419	Silver	1150	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Sodium	1155	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Strontium	1160	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Thallium	1165	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Thorium	1170	NELAP	PA	03/24/2017
EPA 6020	A	10156419	Tin	1175	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Titanium	1180	NELAP	PA	08/24/2005
EPA 6020	A	10156419	Uranium (mass)	1184	NELAP	PA	03/24/2017
EPA 6020	A	10156419	Vanadium	1185	NELAP	PA	04/07/2005
EPA 6020	A	10156419	Zinc	1190	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Aluminum	1000	NELAP	PA	04/07/2005

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PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6020	B	10156420	Antimony	1005	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Arsenic	1010	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Barium	1015	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Beryllium	1020	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Boron	1025	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Cadmium	1030	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Calcium	1035	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Chromium	1040	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Cobalt	1050	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Copper	1055	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Iron	1070	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Lead	1075	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Lithium	1080	NELAP	PA	03/24/2017
EPA 6020	B	10156420	Magnesium	1085	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Manganese	1090	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Molybdenum	1100	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Nickel	1105	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Potassium	1125	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Selenium	1140	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Silica, as SiO2	1990	NELAP	PA	04/18/2006
EPA 6020	B	10156420	Silicon	1145	NELAP	PA	06/03/2010
EPA 6020	B	10156420	Silver	1150	NELAP	PA	04/07/2005

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EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 6020	B	10156420	Sodium	1155	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Strontium	1160	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Thallium	1165	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Thorium	1170	NELAP	PA	03/24/2017
EPA 6020	B	10156420	Tin	1175	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Titanium	1180	NELAP	PA	08/24/2005
EPA 6020	B	10156420	Uranium (mass)	1184	NELAP	PA	03/24/2017
EPA 6020	B	10156420	Vanadium	1185	NELAP	PA	04/07/2005
EPA 6020	B	10156420	Zinc	1190	NELAP	PA	04/07/2005
EPA 7196	A	10162400	Chromium VI	1045	NELAP	PA	04/07/2005
EPA 7470	A	10165807	Mercury	1095	NELAP	PA	08/26/2006
EPA 7471	B	10166457	Mercury	1095	NELAP	PA	04/09/2009
EPA 8081	B	10178811	Organochlorine pesticides by GC/ECD	7937	NELAP	PA	01/01/2013
EPA 8081	B	10178811	2,4'-DDD	8580	NELAP	PA	04/18/2006
EPA 8081	B	10178811	2,4'-DDE	8585	NELAP	PA	04/18/2006
EPA 8081	B	10178811	2,4'-DDT	8590	NELAP	PA	04/18/2006
EPA 8081	B	10178811	4,4'-DDD	7355	NELAP	PA	04/07/2005
EPA 8081	B	10178811	4,4'-DDE	7360	NELAP	PA	04/07/2005
EPA 8081	B	10178811	4,4'-DDT	7365	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Aldrin (HHDN)	7025	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Chlorbenside	7321	NELAP	PA	04/18/2006
EPA 8081	B	10178811	Chlordane (tech.)	7250	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8081	B	10178811	Dacthal (DCPA)	8550	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Diallate (cis or trans)	7405	NELAP	PA	08/26/2006
EPA 8081	B	10178811	Dieldrin	7470	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Endosulfan I	7510	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Endosulfan II	7515	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Endosulfan sulfate	7520	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Endrin	7540	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Endrin aldehyde	7530	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Endrin ketone	7535	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Heptachlor	7685	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Heptachlor epoxide	7690	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Hexachlorobenzene	6275	NELAP	PA	05/12/2011
EPA 8081	B	10178811	Isodrin	7725	NELAP	PA	08/24/2005
EPA 8081	B	10178811	Methoxychlor	7810	NELAP	PA	04/07/2005
EPA 8081	B	10178811	Mirex	7870	NELAP	PA	08/24/2005
EPA 8081	B	10178811	Oxychlordane	3890	NELAP	PA	04/09/2009
EPA 8081	B	10178811	Toxaphene (Chlorinated camphene)	8250	NELAP	PA	04/07/2005
EPA 8081	B	10178811	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	NELAP	PA	04/07/2005
EPA 8081	B	10178811	alpha-Chlordane	7240	NELAP	PA	04/07/2005
EPA 8081	B	10178811	beta-BHC (beta-Hexachlorocyclohexane)	7115	NELAP	PA	04/07/2005
EPA 8081	B	10178811	cis-Nonachlor	7925	NELAP	PA	04/18/2006
EPA 8081	B	10178811	delta-BHC (delta-Hexachlorocyclohexane)	7105	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8081	B	10178811	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	7120	NELAP	PA	04/07/2005
EPA 8081	B	10178811	gamma-Chlordane	7245	NELAP	PA	04/07/2005
EPA 8081	B	10178811	trans-Nonachlor	7910	NELAP	PA	04/18/2006
EPA 8082	A	10179358	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ 206)	9095	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ 195)	9103	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ 170)	9065	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,3',4,4'-Hexachlorobiphenyl (BZ 128)	9020	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ 187)	9080	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ 183)	9075	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ 138)	9025	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ 180)	9134	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,4,4',6,6'-Heptachlorobiphenyl (BZ 184)	9139	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,2',3,4,5'-Pentachlorobiphenyl (BZ 87)	8975	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',3,5'-Tetrachlorobiphenyl (BZ 44)	8945	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',4,4',5,5'-Hexachlorobiphenyl (BZ 153)	9040	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',4,5'-Tetrachlorobiphenyl (BZ 49)	8950	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',4,5,5'-Pentachlorobiphenyl (BZ 101)	8980	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',5,5'-Tetrachlorobiphenyl (BZ 52)	8955	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,2',5-Trichlorobiphenyl (BZ 18)	8930	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,3',4,4',5'-Pentachlorobiphenyl (BZ 123)	9000	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3',4,4',5,5'-Hexachlorobiphenyl (BZ 167)	9055	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3',4,4',5-Pentachlorobiphenyl (BZ 118)	8995	NELAP	PA	08/26/2006

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8082	A	10179358	2,3',4,4'-Tetrachlorobiphenyl (BZ 66)	8960	NELAP	PA	08/26/2006
EPA 8082	A	10179358	2,3,3',4,4',5'-Hexachlorobiphenyl (BZ 157)	9045	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ 189)	9085	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,3,3',4,4',5-Hexachlorobiphenyl (BZ 156)	9050	NELAP	PA	12/30/2019
EPA 8082	A	10179358	2,3,3',4,4'-Pentachlorobiphenyl (BZ 105)	8985	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,3,4,4',5-Pentachlorobiphenyl (BZ 114)	9005	NELAP	PA	04/25/2014
EPA 8082	A	10179358	2,4'-Dichlorobiphenyl (BZ 8)	9256	NELAP	PA	04/13/2009
EPA 8082	A	10179358	2,4,4'-Trichlorobiphenyl (BZ 28)	9252	NELAP	PA	04/13/2009
EPA 8082	A	10179358	3,3',4,4',5,5'-Hexachlorobiphenyl (BZ 169)	9060	NELAP	PA	04/13/2009
EPA 8082	A	10179358	3,3',4,4',5-Pentachlorobiphenyl (BZ 126)	9015	NELAP	PA	04/13/2009
EPA 8082	A	10179358	3,3',4,4'-Tetrachlorobiphenyl (BZ 77)	8965	NELAP	PA	04/13/2009
EPA 8082	A	10179358	3,4,4',5-Tetrachlorobiphenyl (BZ 81)	8970	NELAP	PA	04/25/2014
EPA 8082	A	10179358	Aroclor-1016 (PCB-1016)	8880	NELAP	PA	11/08/2007
EPA 8082	A	10179358	Aroclor-1016 (in oil)	8880	NELAP	PA	10/19/2016
EPA 8082	A	10179358	Aroclor-1221 (PCB-1221)	8885	NELAP	PA	11/08/2007
EPA 8082	A	10179358	Aroclor-1221 (in oil)	8885	NELAP	PA	10/19/2016
EPA 8082	A	10179358	Aroclor-1232 (PCB-1232)	8890	NELAP	PA	11/08/2007
EPA 8082	A	10179358	Aroclor-1232 (in oil)	8890	NELAP	PA	10/19/2016
EPA 8082	A	10179358	Aroclor-1242 (PCB-1242)	8895	NELAP	PA	11/08/2007
EPA 8082	A	10179358	Aroclor-1242 (in oil)	8895	NELAP	PA	10/19/2016
EPA 8082	A	10179358	Aroclor-1248 (PCB-1248)	8900	NELAP	PA	11/08/2007
EPA 8082	A	10179358	Aroclor-1248 (in oil)	8900	NELAP	PA	10/19/2016

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PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8082	A	10179358	Aroclor-1254 (PCB-1254)	8905	NELAP	PA	11/08/2007
EPA 8082	A	10179358	Aroclor-1254 (in oil)	8905	NELAP	PA	10/19/2016
EPA 8082	A	10179358	Aroclor-1260 (PCB-1260)	8910	NELAP	PA	11/08/2007
EPA 8082	A	10179358	Aroclor-1260 (in oil)	8910	NELAP	PA	10/19/2016
EPA 8082	A	10179358	Aroclor-1262 (PCB-1262)	8912	NELAP	PA	04/08/2008
EPA 8082	A	10179358	Aroclor-1268 (PCB-1268)	8913	NELAP	PA	04/08/2008
EPA 8082	A	10179358	Decachlorobiphenyl	9105	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Organophosphorus compounds by GC/NPD	7939	NELAP	PA	04/09/2009
EPA 8141	B	10182204	Azinphos-methyl (Guthion)	7075	NELAP	PA	04/07/2005
EPA 8141	B	10182204	Bolstar (Sulprofos)	7125	NELAP	PA	04/18/2006
EPA 8141	B	10182204	Chlorpyrifos	7300	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Coumaphos	7315	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Demeton	7390	NELAP	PA	04/09/2009
EPA 8141	B	10182204	Demeton-O	7395	NELAP	PA	04/07/2005
EPA 8141	B	10182204	Demeton-S	7385	NELAP	PA	04/07/2005
EPA 8141	B	10182204	Diazinon (Spectracide)	7410	NELAP	PA	04/07/2005
EPA 8141	B	10182204	Dichlorovos (DDVP, Dichlorvos)	8610	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Dimethoate	7475	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Disulfoton	8625	NELAP	PA	04/07/2005
EPA 8141	B	10182204	EPN (Santox)	7550	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Ethoprop (Prophos)	7570	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Famphur	7580	NELAP	PA	08/24/2005

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Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8141	B	10182204	Fensulfothion	7600	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Fenthion	7605	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Malathion	7770	NELAP	PA	04/07/2005
EPA 8141	B	10182204	Methyl parathion (Parathion, methyl)	7825	NELAP	PA	04/07/2005
EPA 8141	B	10182204	Mevinphos	7850	NELAP	PA	08/24/2005
EPA 8141	B	10182204	O,O,O-Triethyl phosphorothioate	8290	NELAP	PA	04/18/2006
EPA 8141	B	10182204	Parathion, ethyl (Ethyl parathion, Parathion)	7955	NELAP	PA	04/07/2005
EPA 8141	B	10182204	Phorate (Thimet)	7985	NELAP	PA	08/24/2005
EPA 8141	B	10182204	Ronnel	8110	NELAP	PA	04/18/2006
EPA 8141	B	10182204	Stirophos (Tetrachlorovinphos)	8140	NELAP	PA	04/18/2006
EPA 8141	B	10182204	Sulfotepp (Tetraethyl dithiopyrophosphate)	8155	NELAP	PA	08/26/2006
EPA 8141	B	10182204	Thionazine (Thionazin, Zinophos)	8235	NELAP	PA	04/18/2006
EPA 8141	B	10182204	Tokuthion (Prothiophos)	8245	NELAP	PA	04/18/2006
EPA 8141	B	10182204	Trichloronate	8275	NELAP	PA	04/18/2006
EPA 8151	A	10183207	Chlorinated herbicides by GC/ECD	8542	NELAP	PA	04/08/2009
EPA 8151	A	10183207	2,4,5-T	8655	NELAP	PA	04/07/2005
EPA 8151	A	10183207	2,4,5-TP (Silvex)	8650	NELAP	PA	04/07/2005
EPA 8151	A	10183207	2,4-D	8545	NELAP	PA	04/07/2005
EPA 8151	A	10183207	2,4-DB (Butoxon)	8560	NELAP	PA	04/07/2005
EPA 8151	A	10183207	Dalapon (2,2-Dichloropropionic acid)	8555	NELAP	PA	08/24/2005
EPA 8151	A	10183207	Dicamba	8595	NELAP	PA	04/07/2005
EPA 8151	A	10183207	Dichloroprop (Dichlorprop)	8605	NELAP	PA	04/07/2005

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 020-004 expiration date 04/30/2023. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8151	A	10183207	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	8620	NELAP	PA	12/30/2019
EPA 8151	A	10183207	MCPA	7775	NELAP	PA	04/07/2005
EPA 8151	A	10183207	MCPP (Mecoprop)	7780	NELAP	PA	04/07/2005
EPA 8151	A	10183207	Pentachlorophenol (PCP)	6605	NELAP	PA	04/07/2005
EPA 8260	C	10307003	VOCs by GC/MS	5242	NELAP	PA	12/05/2013
EPA 8260	D	10307127	VOCs by GC/MS	5242	NELAP	PA	06/05/2019
EPA 8260	C	10307003	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	08/24/2005
EPA 8260	C	10307003	1,1,1-Trichloroethane	5160	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	08/24/2005
EPA 8260	C	10307003	1,1,2-Trichloroethane	5165	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,1-Dichloroethane	4630	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,1-Dichloropropene	4670	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2,3-Trichlorobenzene	5150	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,2,4-Trichlorobenzene	5155	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,2,4-Trimethylbenzene	5210	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	08/24/2005
EPA 8260	C	10307003	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	04/07/2005

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	1,2-Dichloroethane	4635	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,2-Dichloroethene (total)	4705	NELAP	PA	03/01/2007
EPA 8260	C	10307003	1,2-Dichloropropane	4655	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,3,5-Trichlorobenzene	6800	NELAP	PA	04/09/2009
EPA 8260	C	10307003	1,3,5-Trimethylbenzene	5215	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,3-Dichloropropane	4660	NELAP	PA	08/26/2006
EPA 8260	C	10307003	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	04/07/2005
EPA 8260	C	10307003	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	08/24/2005
EPA 8260	C	10307003	2,2,4-Trimethylpentane (Iso-octane)	5220	NELAP	PA	12/05/2007
EPA 8260	C	10307003	2,2-Dichloropropane	4665	NELAP	PA	08/26/2006
EPA 8260	C	10307003	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	08/24/2005
EPA 8260	C	10307003	2-Chloroethyl vinyl ether	4500	NELAP	PA	04/07/2005
EPA 8260	C	10307003	2-Chlorotoluene	4535	NELAP	PA	04/07/2005
EPA 8260	C	10307003	2-Hexanone	4860	NELAP	PA	08/24/2005
EPA 8260	C	10307003	4-Chlorotoluene	4540	NELAP	PA	04/07/2005
EPA 8260	C	10307003	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Acetone	4315	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Acetonitrile	4320	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Acrolein (Propenal)	4325	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Acrylonitrile	4340	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	08/26/2006

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Laboratory Scope of Accreditation

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301 Alpha Drive
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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Benzene	4375	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Benzyl chloride	5635	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Bromobenzene	4385	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Bromochloromethane	4390	NELAP	PA	08/24/2005
EPA 8260	C	10307003	Bromodichloromethane	4395	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Bromoform	4400	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Carbon disulfide	4450	NELAP	PA	08/24/2005
EPA 8260	C	10307003	Carbon tetrachloride	4455	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Chlorobenzene	4475	NELAP	PA	12/22/2021
EPA 8260	C	10307003	Chloroethane	4485	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Chloroform	4505	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Cyclohexane	4555	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Dibromochloromethane	4575	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Dibromomethane	4595	NELAP	PA	08/24/2005
EPA 8260	C	10307003	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Dichlorofluoromethane (Freon 21)	4627	NELAP	PA	12/30/2019
EPA 8260	C	10307003	Diethyl ether (Ethyl ether)	4725	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Ethyl methacrylate	4810	NELAP	PA	08/24/2005
EPA 8260	C	10307003	Ethylbenzene	4765	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Heptane	4825	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/24/2005

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Iodomethane (Methyl iodide)	4870	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Isopropyl alcohol (2-Propanol)	4895	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Isopropylbenzene (Cumene)	4900	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Methacrylonitrile	4925	NELAP	PA	08/26/2006
EPA 8260	C	10307003	Methyl acetate	4940	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Methyl bromide (Bromomethane)	4950	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Methyl chloride (Chloromethane)	4960	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Methylcyclohexane	4965	NELAP	PA	04/18/2006
EPA 8260	C	10307003	Methylene chloride (Dichloromethane)	4975	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Methylmethacrylate	4990	NELAP	PA	08/24/2005
EPA 8260	C	10307003	Naphthalene	5005	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	08/24/2005
EPA 8260	C	10307003	Styrene	5100	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Tetrahydrofuran (THF)	5120	NELAP	PA	04/22/2010
EPA 8260	C	10307003	Toluene	5140	NELAP	PA	12/22/2021
EPA 8260	C	10307003	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Vinyl acetate	5225	NELAP	PA	04/07/2005
EPA 8260	C	10307003	Vinyl chloride (Chloroethene)	5235	NELAP	PA	04/07/2005

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Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Xylenes, total	5260	NELAP	PA	04/07/2005
EPA 8260	C	10307003	cis-1,2-Dichloroethene	4645	NELAP	PA	04/07/2005
EPA 8260	C	10307003	cis-1,3-Dichloropropene	4680	NELAP	PA	04/07/2005
EPA 8260	C	10307003	m+p-Xylene	5240	NELAP	PA	08/26/2006
EPA 8260	C	10307003	m-Xylene	5245	NELAP	PA	04/09/2009
EPA 8260	C	10307003	n-Butylbenzene	4435	NELAP	PA	04/07/2005
EPA 8260	C	10307003	n-Hexane	4855	NELAP	PA	12/05/2007
EPA 8260	C	10307003	n-Propylbenzene	5090	NELAP	PA	04/07/2005
EPA 8260	C	10307003	o-Xylene	5250	NELAP	PA	08/26/2006
EPA 8260	C	10307003	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	08/26/2006
EPA 8260	C	10307003	p-Xylene	5255	NELAP	PA	04/09/2009
EPA 8260	C	10307003	sec-Butylbenzene	4440	NELAP	PA	04/07/2005
EPA 8260	C	10307003	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	04/08/2008
EPA 8260	C	10307003	tert-Butylbenzene	4445	NELAP	PA	04/07/2005
EPA 8260	C	10307003	trans-1,2-Dichloroethene	4700	NELAP	PA	04/07/2005
EPA 8260	C	10307003	trans-1,3-Dichloropropene	4685	NELAP	PA	04/07/2005
EPA 8260	C	10307003	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	08/24/2005
EPA 8260	D	10307127	1,1,1-Trichloroethane	5160	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	08/24/2005
EPA 8260	D	10307127	1,1,2-Trichloroethane	5165	NELAP	PA	04/07/2005

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	1,1-Dichloroethane	4630	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,1-Dichloropropene	4670	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2,3-Trichlorobenzene	5150	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,2,4-Trichlorobenzene	5155	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,2,4-Trimethylbenzene	5210	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	08/24/2005
EPA 8260	D	10307127	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,2-Dichloroethane	4635	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,2-Dichloroethene (total)	4705	NELAP	PA	03/01/2007
EPA 8260	D	10307127	1,2-Dichloropropane	4655	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,3,5-Trichlorobenzene	6800	NELAP	PA	04/09/2009
EPA 8260	D	10307127	1,3,5-Trimethylbenzene	5215	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,3-Dichloropropane	4660	NELAP	PA	08/26/2006
EPA 8260	D	10307127	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	04/07/2005
EPA 8260	D	10307127	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	08/24/2005
EPA 8260	D	10307127	2,2,4-Trimethylpentane (Iso-octane)	5220	NELAP	PA	12/05/2007
EPA 8260	D	10307127	2,2-Dichloropropane	4665	NELAP	PA	08/26/2006

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	08/24/2005
EPA 8260	D	10307127	2-Chloroethyl vinyl ether	4500	NELAP	PA	04/07/2005
EPA 8260	D	10307127	2-Chlorotoluene	4535	NELAP	PA	04/07/2005
EPA 8260	D	10307127	2-Hexanone	4860	NELAP	PA	08/24/2005
EPA 8260	D	10307127	4-Chlorotoluene	4540	NELAP	PA	04/07/2005
EPA 8260	D	10307127	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Acetone	4315	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Acetonitrile	4320	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Acrolein (Propenal)	4325	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Acrylonitrile	4340	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Benzene	4375	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Benzyl chloride	5635	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Bromobenzene	4385	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Bromochloromethane	4390	NELAP	PA	08/24/2005
EPA 8260	D	10307127	Bromodichloromethane	4395	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Bromoform	4400	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Carbon disulfide	4450	NELAP	PA	08/24/2005
EPA 8260	D	10307127	Carbon tetrachloride	4455	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Chlorobenzene	4475	NELAP	PA	12/22/2021
EPA 8260	D	10307127	Chloroethane	4485	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Chloroform	4505	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Cyclohexane	4555	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Dibromochloromethane	4575	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Dibromomethane	4595	NELAP	PA	08/24/2005
EPA 8260	D	10307127	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Dichlorofluoromethane (Freon 21)	4627	NELAP	PA	12/30/2019
EPA 8260	D	10307127	Diethyl ether (Ethyl ether)	4725	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Ethyl methacrylate	4810	NELAP	PA	08/24/2005
EPA 8260	D	10307127	Ethylbenzene	4765	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Heptane	4825	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/24/2005
EPA 8260	D	10307127	Iodomethane (Methyl iodide)	4870	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Isopropyl alcohol (2-Propanol)	4895	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Isopropylbenzene (Cumene)	4900	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Methacrylonitrile	4925	NELAP	PA	08/26/2006
EPA 8260	D	10307127	Methyl acetate	4940	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Methyl bromide (Bromomethane)	4950	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Methyl chloride (Chloromethane)	4960	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Methylcyclohexane	4965	NELAP	PA	04/18/2006
EPA 8260	D	10307127	Methylene chloride (Dichloromethane)	4975	NELAP	PA	04/07/2005

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Methylmethacrylate	4990	NELAP	PA	08/24/2005
EPA 8260	D	10307127	Naphthalene	5005	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	08/24/2005
EPA 8260	D	10307127	Styrene	5100	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Tetrahydrofuran (THF)	5120	NELAP	PA	04/22/2010
EPA 8260	D	10307127	Toluene	5140	NELAP	PA	12/22/2021
EPA 8260	D	10307127	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Vinyl acetate	5225	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Vinyl chloride (Chloroethene)	5235	NELAP	PA	04/07/2005
EPA 8260	D	10307127	Xylenes, total	5260	NELAP	PA	04/07/2005
EPA 8260	D	10307127	cis-1,2-Dichloroethene	4645	NELAP	PA	04/07/2005
EPA 8260	D	10307127	cis-1,3-Dichloropropene	4680	NELAP	PA	04/07/2005
EPA 8260	D	10307127	m+p-Xylene	5240	NELAP	PA	08/26/2006
EPA 8260	D	10307127	m-Xylene	5245	NELAP	PA	04/09/2009
EPA 8260	D	10307127	n-Butylbenzene	4435	NELAP	PA	04/07/2005
EPA 8260	D	10307127	n-Hexane	4855	NELAP	PA	12/05/2007
EPA 8260	D	10307127	n-Propylbenzene	5090	NELAP	PA	04/07/2005
EPA 8260	D	10307127	o-Xylene	5250	NELAP	PA	08/26/2006
EPA 8260	D	10307127	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	08/26/2006
EPA 8260	D	10307127	p-Xylene	5255	NELAP	PA	04/09/2009

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Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	sec-Butylbenzene	4440	NELAP	PA	04/07/2005
EPA 8260	D	10307127	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	04/08/2008
EPA 8260	D	10307127	tert-Butylbenzene	4445	NELAP	PA	04/07/2005
EPA 8260	D	10307127	trans-1,2-Dichloroethene	4700	NELAP	PA	04/07/2005
EPA 8260	D	10307127	trans-1,3-Dichloropropene	4685	NELAP	PA	04/07/2005
EPA 8260	D	10307127	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	04/07/2005
EPA 8270	E	10242543	SOCs by GC/MS	6687	NELAP	PA	06/05/2019
EPA 8270	D	10186035	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	04/18/2006
EPA 8270	D	10186035	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	04/07/2005
EPA 8270	D	10186035	1,2,4-Trichlorobenzene	5155	NELAP	PA	04/07/2005
EPA 8270	D	10186035	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	04/07/2005
EPA 8270	D	10186035	1,2-Diphenylhydrazine	6220	NELAP	PA	04/18/2006
EPA 8270	D	10186035	1,3,5-Trinitrobenzene (1,3,5-TNB)	6885	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	04/07/2005
EPA 8270	D	10186035	1,3-Dinitrobenzene (1,3-DNB)	6160	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	04/07/2005
EPA 8270	D	10186035	1,4-Dinitrobenzene (1,4-DNB)	6165	NELAP	PA	04/21/2022
EPA 8270	D	10186035	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	08/24/2005
EPA 8270	D	10186035	1,4-Naphthoquinone	6420	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1,4-Phenylenediamine	6630	NELAP	PA	12/05/2007
EPA 8270	D	10186035	1-Chloronaphthalene	5790	NELAP	PA	08/26/2006
EPA 8270	D	10186035	1-Methylnaphthalene	6380	NELAP	PA	04/09/2009

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PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	1-Naphthylamine (alpha-Naphthylamine)	6425	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	04/18/2006
EPA 8270	D	10186035	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	08/24/2005
EPA 8270	D	10186035	2,3,5,6-Tetrachlorophenol	6740	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,3,7,8-TCDD (Dioxin) (screen)	9619	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2,4,5-Trichlorophenol	6835	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2,4,6-Trichlorophenol	6840	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2,4-Dichlorophenol	6000	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2,4-Dimethylphenol	6130	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2,4-Dinitrophenol	6175	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2,6-Dichlorophenol	6005	NELAP	PA	08/24/2005
EPA 8270	D	10186035	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2-Acetylaminofluorene	5515	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Chloronaphthalene	5795	NELAP	PA	10/13/2010
EPA 8270	D	10186035	2-Chlorophenol	5800	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2-Methylnaphthalene	6385	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2-Methylphenol (o-Cresol)	6400	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2-Naphthylamine (beta-Naphthylamine)	6430	NELAP	PA	08/26/2006
EPA 8270	D	10186035	2-Nitroaniline	6460	NELAP	PA	04/07/2005

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(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	2-Nitrophenol	6490	NELAP	PA	04/07/2005
EPA 8270	D	10186035	2-Picoline (2-Methylpyridine)	5050	NELAP	PA	04/18/2006
EPA 8270	D	10186035	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	04/07/2005
EPA 8270	D	10186035	3,3'-Dichlorobenzidine	5945	NELAP	PA	04/07/2005
EPA 8270	D	10186035	3,3'-Dimethoxybenzidine	6100	NELAP	PA	08/24/2005
EPA 8270	D	10186035	3-Methylcholanthrene	6355	NELAP	PA	08/26/2006
EPA 8270	D	10186035	3-Nitroaniline	6465	NELAP	PA	04/07/2005
EPA 8270	D	10186035	4,4'-Methylenebis(2-chloroaniline)	6365	NELAP	PA	08/24/2005
EPA 8270	D	10186035	4-Aminobiphenyl	5540	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Bromophenyl phenyl ether	5660	NELAP	PA	04/07/2005
EPA 8270	D	10186035	4-Chloro-3-methylphenol	5700	NELAP	PA	04/07/2005
EPA 8270	D	10186035	4-Chloroaniline	5745	NELAP	PA	04/07/2005
EPA 8270	D	10186035	4-Chlorophenol	5805	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Chlorophenyl phenyl ether	5825	NELAP	PA	04/07/2005
EPA 8270	D	10186035	4-Dimethylaminoazobenzene (Dimethylaminoazobenzene)	6105	NELAP	PA	08/26/2006
EPA 8270	D	10186035	4-Nitroaniline	6470	NELAP	PA	04/07/2005
EPA 8270	D	10186035	4-Nitrophenol	6500	NELAP	PA	04/07/2005
EPA 8270	D	10186035	4-Nitroquinoline-1-oxide	6510	NELAP	PA	08/26/2006
EPA 8270	D	10186035	5-Nitro-o-toluidine	6570	NELAP	PA	08/26/2006
EPA 8270	D	10186035	6-Methylchrysene	6112	NELAP	PA	12/05/2007
EPA 8270	D	10186035	7,12-Dimethylbenz(a)anthracene	6115	NELAP	PA	08/26/2006

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Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Acenaphthene	5500	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Acenaphthylene	5505	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Acetophenone	5510	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Aniline	5545	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Anthracene	5555	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Aramite	5560	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Atrazine	7065	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Benzaldehyde	5570	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Benzidine	5595	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Benzo[a]anthracene	5575	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Benzo[a]pyrene	5580	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Benzo[b]fluoranthene	5585	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Benzo[ghi]perylene	5590	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Benzo[k]fluoranthene	5600	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Benzoic acid	5610	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Benzyl alcohol	5630	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Caprolactam	7180	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Carbazole	5680	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Chlorobenzilate	7260	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Cresols (total)	5862	NELAP	PA	04/18/2006

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Laboratory Scope of Accreditation

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Eurofins Pittsburgh
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Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Di-n-butyl phthalate	5925	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Di-n-octyl phthalate	6200	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Diallate (cis or trans)	7405	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Dibenz[a,h]acridine	9354	NELAP	PA	12/05/2007
EPA 8270	D	10186035	Dibenzo[a,h]anthracene	5895	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Dibenzofuran	5905	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Diethyl phthalate	6070	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Dimethoate	7475	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Dimethyl phthalate	6135	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	8620	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Disulfoton	8625	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Ethyl methanesulfonate	6260	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Famphur	7580	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Fluoranthene	6265	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Fluorene	6270	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Hexachlorobenzene	6275	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Hexachlorocyclopentadiene	6285	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Hexachloroethane	4840	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Hexachloropropene	6295	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Indene	6312	NELAP	PA	04/09/2009
EPA 8270	D	10186035	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Isodrin	7725	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Isophorone	6320	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Isosafrole	6325	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Kepone	7740	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Methapyrilene	6345	NELAP	PA	12/05/2007
EPA 8270	D	10186035	Methyl methanesulfonate	6375	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Methyl parathion (Parathion, methyl)	7825	NELAP	PA	08/24/2005
EPA 8270	D	10186035	N-Nitrosodi-n-butylamine	5025	NELAP	PA	08/24/2005
EPA 8270	D	10186035	N-Nitrosodi-n-propylamine	6545	NELAP	PA	04/07/2005
EPA 8270	D	10186035	N-Nitrosodiethylamine	6525	NELAP	PA	04/07/2005
EPA 8270	D	10186035	N-Nitrosodimethylamine	6530	NELAP	PA	04/07/2005
EPA 8270	D	10186035	N-Nitrosodiphenylamine	6535	NELAP	PA	04/07/2005
EPA 8270	D	10186035	N-Nitrosomethylethylamine	6550	NELAP	PA	08/24/2005
EPA 8270	D	10186035	N-Nitrosomorpholine	6555	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosopiperidine	6560	NELAP	PA	08/26/2006
EPA 8270	D	10186035	N-Nitrosopyrrolidine	6565	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Naphthalene	5005	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Nitrobenzene	5015	NELAP	PA	04/07/2005
EPA 8270	D	10186035	O,O,O-Triethyl phosphorothioate	8290	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Parathion, ethyl (Ethyl parathion, Parathion)	7955	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Pentachlorobenzene	6590	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Pentachloroethane	5035	NELAP	PA	08/26/2006

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Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Pentachloronitrobenzene (PCNB)	6600	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Pentachlorophenol (PCP)	6605	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Phenacetin	6610	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Phenanthrene	6615	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Phenol	6625	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Phorate (Thimet)	7985	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Pronamide (Kerb)	6650	NELAP	PA	08/24/2005
EPA 8270	D	10186035	Pyrene	6665	NELAP	PA	04/07/2005
EPA 8270	D	10186035	Pyridine	5095	NELAP	PA	04/18/2006
EPA 8270	D	10186035	Safrole	6685	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Sulfotepp (Tetraethyl dithiopyrophosphate)	8155	NELAP	PA	08/26/2006
EPA 8270	D	10186035	Thionazine (Thionazin, Zinophos)	8235	NELAP	PA	08/26/2006
EPA 8270	D	10186035	bis(2-Chloroethoxy)methane	5760	NELAP	PA	04/07/2005
EPA 8270	D	10186035	bis(2-Chloroethyl) ether	5765	NELAP	PA	04/07/2005
EPA 8270	D	10186035	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	04/07/2005
EPA 8270	D	10186035	n-Octadecane	6580	NELAP	PA	04/09/2009
EPA 8270	D	10186035	o-Toluidine (2-Toluidine, 2-Methylaniline)	5145	NELAP	PA	08/24/2005
EPA 8270	D	10186035	p-(Dimethylamino)azobenzene	6105	NELAP	PA	04/09/2009
EPA 8270	D	10186035	p-Phenylenediamine	6630	NELAP	PA	04/09/2009
EPA 8270	E	10242543	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	04/18/2006
EPA 8270	E	10242543	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	04/07/2005
EPA 8270	E	10242543	1,2,4-Trichlorobenzene	5155	NELAP	PA	04/07/2005

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 020-004 expiration date 04/30/2023. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	04/07/2005
EPA 8270	E	10242543	1,2-Diphenylhydrazine	6220	NELAP	PA	04/18/2006
EPA 8270	E	10242543	1,3,5-Trinitrobenzene (1,3,5-TNB)	6885	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	04/07/2005
EPA 8270	E	10242543	1,3-Dinitrobenzene (1,3-DNB)	6160	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	04/07/2005
EPA 8270	E	10242543	1,4-Dinitrobenzene (1,4-DNB)	6165	NELAP	PA	04/21/2022
EPA 8270	E	10242543	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	08/24/2005
EPA 8270	E	10242543	1,4-Naphthoquinone	6420	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1,4-Phenylenediamine	6630	NELAP	PA	12/05/2007
EPA 8270	E	10242543	1-Chloronaphthalene	5790	NELAP	PA	08/26/2006
EPA 8270	E	10242543	1-Methylnaphthalene	6380	NELAP	PA	04/09/2009
EPA 8270	E	10242543	1-Naphthylamine (alpha-Naphthylamine)	6425	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	04/18/2006
EPA 8270	E	10242543	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	08/24/2005
EPA 8270	E	10242543	2,3,5,6-Tetrachlorophenol	6740	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,3,7,8-TCDD (Dioxin) (screen)	9619	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2,4,5-Trichlorophenol	6835	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2,4,6-Trichlorophenol	6840	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2,4-Dichlorophenol	6000	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2,4-Dimethylphenol	6130	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	2,4-Dinitrophenol	6175	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2,6-Dichlorophenol	6005	NELAP	PA	08/24/2005
EPA 8270	E	10242543	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2-Acetylaminofluorene	5515	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Chloronaphthalene	5795	NELAP	PA	10/13/2010
EPA 8270	E	10242543	2-Chlorophenol	5800	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2-Methylnaphthalene	6385	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2-Methylphenol (o-Cresol)	6400	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2-Naphthylamine (beta-Naphthylamine)	6430	NELAP	PA	08/26/2006
EPA 8270	E	10242543	2-Nitroaniline	6460	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2-Nitrophenol	6490	NELAP	PA	04/07/2005
EPA 8270	E	10242543	2-Picoline (2-Methylpyridine)	5050	NELAP	PA	04/18/2006
EPA 8270	E	10242543	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	04/07/2005
EPA 8270	E	10242543	3,3'-Dichlorobenzidine	5945	NELAP	PA	04/07/2005
EPA 8270	E	10242543	3,3'-Dimethylbenzidine	6120	NELAP	PA	08/24/2005
EPA 8270	E	10242543	3-Methylcholanthrene	6355	NELAP	PA	08/26/2006
EPA 8270	E	10242543	3-Nitroaniline	6465	NELAP	PA	04/07/2005
EPA 8270	E	10242543	4,4'-Methylenebis(2-chloroaniline)	6365	NELAP	PA	08/24/2005
EPA 8270	E	10242543	4-Aminobiphenyl	5540	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Bromophenyl phenyl ether	5660	NELAP	PA	04/07/2005

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	4-Chloro-3-methylphenol	5700	NELAP	PA	04/07/2005
EPA 8270	E	10242543	4-Chloroaniline	5745	NELAP	PA	04/07/2005
EPA 8270	E	10242543	4-Chlorophenol	5805	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Chlorophenyl phenyl ether	5825	NELAP	PA	04/07/2005
EPA 8270	E	10242543	4-Dimethylaminoazobenzene (Dimethylaminoazobenzene)	6105	NELAP	PA	08/26/2006
EPA 8270	E	10242543	4-Nitroaniline	6470	NELAP	PA	04/07/2005
EPA 8270	E	10242543	4-Nitrophenol	6500	NELAP	PA	04/07/2005
EPA 8270	E	10242543	4-Nitroquinoline-1-oxide	6510	NELAP	PA	08/26/2006
EPA 8270	E	10242543	5-Nitro-o-toluidine	6570	NELAP	PA	08/26/2006
EPA 8270	E	10242543	6-Methylchrysene	6112	NELAP	PA	12/05/2007
EPA 8270	E	10242543	7,12-Dimethylbenz(a)anthracene	6115	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Acenaphthene	5500	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Acenaphthylene	5505	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Acetophenone	5510	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Aniline	5545	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Anthracene	5555	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Aramite	5560	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Atrazine	7065	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Benzaldehyde	5570	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Benzidine	5595	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Benzo[a]anthracene	5575	NELAP	PA	04/07/2005

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Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Benzo[a]pyrene	5580	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Benzo[b]fluoranthene	5585	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Benzo[ghi]perylene	5590	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Benzo[k]fluoranthene	5600	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Benzoic acid	5610	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Benzyl alcohol	5630	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Caprolactam	7180	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Carbazole	5680	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Chlorobenzilate	7260	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Cresols (total)	5862	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Di-n-butyl phthalate	5925	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Di-n-octyl phthalate	6200	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Diallate (cis or trans)	7405	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Dibenz[a,h]acridine	9354	NELAP	PA	12/05/2007
EPA 8270	E	10242543	Dibenzo[a,h]anthracene	5895	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Dibenzofuran	5905	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Diethyl phthalate	6070	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Dimethoate	7475	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Dimethyl phthalate	6135	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	8620	NELAP	PA	08/26/2006

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Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Disulfoton	8625	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Ethyl methanesulfonate	6260	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Famphur	7580	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Fluoranthene	6265	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Fluorene	6270	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Hexachlorobenzene	6275	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Hexachlorocyclopentadiene	6285	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Hexachloroethane	4840	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Hexachloropropene	6295	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Indene	6312	NELAP	PA	04/09/2009
EPA 8270	E	10242543	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Isodrin	7725	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Isophorone	6320	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Isosafrole	6325	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Kepone	7740	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Methapyrilene	6345	NELAP	PA	12/05/2007
EPA 8270	E	10242543	Methyl methanesulfonate	6375	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Methyl parathion (Parathion, methyl)	7825	NELAP	PA	08/24/2005
EPA 8270	E	10242543	N-Nitrosodi-n-butylamine	5025	NELAP	PA	08/24/2005
EPA 8270	E	10242543	N-Nitrosodi-n-propylamine	6545	NELAP	PA	04/07/2005
EPA 8270	E	10242543	N-Nitrosodiethylamine	6525	NELAP	PA	04/07/2005

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	N-Nitrosodimethylamine	6530	NELAP	PA	04/07/2005
EPA 8270	E	10242543	N-Nitrosodiphenylamine	6535	NELAP	PA	04/07/2005
EPA 8270	E	10242543	N-Nitrosomethylethylamine	6550	NELAP	PA	08/24/2005
EPA 8270	E	10242543	N-Nitrosomorpholine	6555	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosopiperidine	6560	NELAP	PA	08/26/2006
EPA 8270	E	10242543	N-Nitrosopyrrolidine	6565	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Naphthalene	5005	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Nitrobenzene	5015	NELAP	PA	04/07/2005
EPA 8270	E	10242543	O,O,O-Triethyl phosphorothioate	8290	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Parathion, ethyl (Ethyl parathion, Parathion)	7955	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Pentachlorobenzene	6590	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Pentachloroethane	5035	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Pentachloronitrobenzene (PCNB)	6600	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Pentachlorophenol (PCP)	6605	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Phenacetin	6610	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Phenanthrene	6615	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Phenol	6625	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Phorate (Thimet)	7985	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Pronamide (Kerb)	6650	NELAP	PA	08/24/2005
EPA 8270	E	10242543	Pyrene	6665	NELAP	PA	04/07/2005
EPA 8270	E	10242543	Pyridine	5095	NELAP	PA	04/18/2006
EPA 8270	E	10242543	Safrole	6685	NELAP	PA	08/26/2006

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DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Sulfotepp (Tetraethyl dithiopyrophosphate)	8155	NELAP	PA	08/26/2006
EPA 8270	E	10242543	Thionazine (Thionazin, Zinophos)	8235	NELAP	PA	08/26/2006
EPA 8270	E	10242543	bis(2-Chloroethoxy)methane	5760	NELAP	PA	04/07/2005
EPA 8270	E	10242543	bis(2-Chloroethyl) ether	5765	NELAP	PA	04/07/2005
EPA 8270	E	10242543	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	04/07/2005
EPA 8270	E	10242543	n-Octadecane	6580	NELAP	PA	04/09/2009
EPA 8270	E	10242543	o-Toluidine (2-Toluidine, 2-Methylaniline)	5145	NELAP	PA	08/24/2005
EPA 8270	E	10242543	p-(Dimethylamino)azobenzene	6105	NELAP	PA	04/09/2009
EPA 8270	E	10242543	p-Phenylenediamine	6630	NELAP	PA	04/09/2009
EPA 9010	C	10193109	Total cyanide	1645	NELAP	PA	03/04/2013
EPA 9013	A	10308802	Cyanide extraction for solids and oils	1421	NELAP	PA	04/22/2010
EPA 9013		10193609	Cyanide extraction for solids and oils	1421	NELAP	PA	12/05/2007
EPA 9014		10193836	Total cyanide	1645	NELAP	PA	12/14/2012
EPA 9030	B	10195605	Sulfide	2005	NELAP	PA	04/07/2005
EPA 9034		10196006	Sulfide	2005	NELAP	PA	04/07/2005
EPA 9040	C	10244403	pH	1900	NELAP	PA	04/09/2009
EPA 9045	D	10198455	pH	1900	NELAP	PA	04/09/2009
EPA 9056	A	10199607	Anions by IC	1522	NELAP	PA	04/09/2009
EPA 9056	A	10199607	Bromide	1540	NELAP	PA	08/26/2006
EPA 9056	A	10199607	Chloride	1575	NELAP	PA	04/07/2005
EPA 9056	A	10199607	Fluoride	1730	NELAP	PA	04/07/2005
EPA 9056	A	10199607	Nitrate as N	1810	NELAP	PA	04/07/2005

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DEP Laboratory ID: 02-00416
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TNI Code: TNI02151
PADWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 9056	A	10199607	Nitrite as N	1840	NELAP	PA	04/07/2005
EPA 9056	A	10199607	Orthophosphate as P	1870	NELAP	PA	01/26/2009
EPA 9056	A	10199607	Sulfate	2000	NELAP	PA	04/07/2005
EPA 9065		10200405	Total phenolics	1905	NELAP	PA	12/05/2007
EPA 9071	B	10201806	Oil and grease	1803	NELAP	PA	04/09/2009
EPA 9071	B	10201806	Total petroleum hydrocarbons (TPH)	2050	NELAP	PA	04/21/2022
EPA 9095	B	10245600	Paint filter liquids test	1434	NELAP	PA	04/09/2009
EPA Lloyd Kahn Method		60041001	Total organic carbon (TOC)	2040	NELAP	PA	09/27/2007
OIA 1677-09		60031450	Available cyanide	1523	NELAP	PA	04/18/2006
SM 2520B - 2011	23rd ed.	20048639	Salinity	1975	NELAP	PA	04/08/2008
SM 2540B - 2015	23rd ed.	20048684	Residue, total	1950	NELAP	PA	04/08/2008
SM 2540G - 2015	23rd ed.	20052248	Percent moisture in soil	8641	NELAP	PA	04/13/2009
SM 2540G - 2015	23rd ed.	20052248	Residue, total	1950	NELAP	PA	12/05/2007
SM 2540G - 2015	23rd ed.	20052248	Total, fixed, and volatile residue	1725	NELAP	PA	05/31/2018
SOP (00416) OP-011	8	60002939	Percent lipids	1526	NELAP	PA	04/13/2009
SOP (00416) WC-033	13	60002951	Water leach	1388	NELAP	PA	09/05/2012

Annmarie Beach

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

State of Florida
Department of Health, Bureau of Public Health Laboratories
This is to certify that

E87052

EUROFINS SAVANNAH
5102 LAROCHE AVENUE
SAVANNAH, GA 31404

has complied with Florida Administrative Code 64E-1,
for the examination of environmental samples in the following categories

DRINKING WATER - GROUP I UNREGULATED CONTAMINANTS, DRINKING WATER - GROUP II UNREGULATED CONTAMINANTS, DRINKING WATER - OTHER REGULATED CONTAMINANTS, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, DRINKING WATER - SYNTHETIC ORGANIC CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: September 15, 2022 Expiration Date: June 30, 2023

Susanne Crowe, MHA
Interim Chief Bureau of Public Health Laboratories
DH Form 1697, 7/04
NON-TRANSFERABLE E87052-69-09/15/2022
Supersedes all previously issued certificates

Laboratory Scope of Accreditation

Attachment to Certificate #: E87052-69, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
1,1,1-Trichloroethane	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
1,1,2,2-Tetrachloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
1,1,2-Trichloroethane	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
1,1-Dichloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
1,1-Dichloroethylene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
1,1-Dichloropropene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
1,2,3-Trichlorobenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	4/16/2018
1,2,3-Trichloropropane	EPA 504.1	Group II Unregulated Contaminants	NELAP	4/18/2011
1,2,3-Trichloropropane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/24/2018
1,2,4-Trichlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	3/19/2012
1,2,4-Trimethylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1	Synthetic Organic Contaminants	NELAP	2/6/2002
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504.1	Synthetic Organic Contaminants	NELAP	2/6/2002
1,2-Dichlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
1,2-Dichloroethane	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
1,2-Dichloropropane	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
1,3,5-Trimethylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/27/2004
1,3-Dichlorobenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
1,3-Dichloropropane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
1,4-Dichlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
2,2-Dichloropropane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
2-Butanone (Methyl ethyl ketone, MEK)	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/2/2005
2-Chlorotoluene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
2-Hexanone	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/2/2005
4-Chlorotoluene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
4-Methyl-2-pentanone (MIBK)	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/2/2005
Acetone	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/2/2005
Alkalinity as CaCO3	SM 2320 B	Primary Inorganic Contaminants	NELAP	4/5/2013
Aluminum	EPA 200.7	Secondary Inorganic Contaminants	NELAP	6/17/2003
Aluminum	EPA 200.8	Secondary Inorganic Contaminants	NELAP	6/17/2003
Amenable cyanide	SM 4500-CN- G	Primary Inorganic Contaminants	NELAP	2/6/2002
Antimony	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Arsenic	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Barium	EPA 200.7	Primary Inorganic Contaminants	NELAP	2/6/2002
Barium	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003

Laboratory Scope of Accreditation

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Beryllium	EPA 200.7	Primary Inorganic Contaminants	NELAP	2/6/2002
Beryllium	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Boron	EPA 200.7	Secondary Inorganic Contaminants	NELAP	12/2/2010
Bromate	EPA 300.1	Primary Inorganic Contaminants	NELAP	9/5/2002
Bromide	EPA 300.1	Primary Inorganic Contaminants	NELAP	10/17/2003
Bromoacetic acid	EPA 552.2	Group I Unregulated Contaminants	NELAP	9/5/2002
Bromobenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Bromochloromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Bromodichloromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Bromoform	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Cadmium	EPA 200.7	Primary Inorganic Contaminants	NELAP	2/6/2002
Cadmium	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Calcium	EPA 200.7	Primary Inorganic Contaminants	NELAP	2/6/2002
Carbon tetrachloride	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Chlorate	EPA 300.1	Secondary Inorganic Contaminants	NELAP	7/30/2007
Chloride	EPA 300.0	Secondary Inorganic Contaminants	NELAP	2/6/2002
Chloride	EPA 325.2	Secondary Inorganic Contaminants	NELAP	2/6/2002
Chloride	SM 4500-Cl^- E	Secondary Inorganic Contaminants	NELAP	7/30/2007
Chlorite	EPA 300.1	Primary Inorganic Contaminants	NELAP	12/2/2005
Chloroacetic acid	EPA 552.2	Group I Unregulated Contaminants	NELAP	9/5/2002
Chlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Chloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Chloroform	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Chromium	EPA 200.7	Primary Inorganic Contaminants	NELAP	2/6/2002
Chromium	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
cis-1,2-Dichloroethylene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
cis-1,3-Dichloropropene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Color	EPA 110.2	Secondary Inorganic Contaminants	NELAP	2/6/2002
Color	SM 2120 B	Secondary Inorganic Contaminants	NELAP	2/6/2002
Conductivity	SM 2510 B	Primary Inorganic Contaminants	NELAP	2/6/2002
Copper	EPA 200.7	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	NELAP	2/6/2002
Copper	EPA 200.8	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	NELAP	6/24/2003
Corrosivity (langlier index)	SM 2330 B	Secondary Inorganic Contaminants	NELAP	2/6/2002

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Cyanide	EPA 335.4	Primary Inorganic Contaminants	NELAP	2/6/2002
Cyanide	SM 4500-CN E	Primary Inorganic Contaminants	NELAP	2/6/2002
Dibromoacetic acid	EPA 552.2	Group I Unregulated Contaminants	NELAP	9/5/2002
Dibromochloromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Dibromomethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Dichloroacetic acid	EPA 552.2	Group I Unregulated Contaminants	NELAP	9/5/2002
Dichlorodifluoromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Dissolved organic carbon (DOC)	SM 5310 B	Primary Inorganic Contaminants	NELAP	12/2/2005
Ethylbenzene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Fluoride	EPA 300.0	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	NELAP	2/6/2002
Hardness	EPA 130.2	Secondary Inorganic Contaminants	NELAP	11/18/2008
Hardness	SM 2340 B	Secondary Inorganic Contaminants	NELAP	12/2/2005
Hardness	SM 2340 C	Secondary Inorganic Contaminants	NELAP	11/18/2008
Hexachlorobutadiene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Iron	EPA 200.7	Secondary Inorganic Contaminants	NELAP	2/6/2002
Isopropylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Lead	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
m+p-Xylenes	EPA 524.2	Group II Unregulated Contaminants	NELAP	11/18/2008
Magnesium	EPA 200.7	Secondary Inorganic Contaminants	NELAP	2/6/2002
Manganese	EPA 200.7	Secondary Inorganic Contaminants	NELAP	2/6/2002
Manganese	EPA 200.8	Secondary Inorganic Contaminants	NELAP	6/24/2003
Mercury	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Mercury	EPA 245.1	Primary Inorganic Contaminants	NELAP	6/24/2003
Methyl bromide (Bromomethane)	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/2/2005
Methyl chloride (Chloromethane)	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Methyl tert-butyl ether (MTBE)	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Methylene chloride	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Molybdenum	EPA 200.7	Secondary Inorganic Contaminants	NELAP	12/2/2005
Molybdenum	EPA 200.8	Secondary Inorganic Contaminants	NELAP	6/23/2010
Naphthalene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/27/2004
n-Butylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Nickel	EPA 200.7	Primary Inorganic Contaminants	NELAP	2/6/2002
Nickel	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Nitrate	EPA 300.0	Primary Inorganic Contaminants	NELAP	2/6/2002
Nitrate	EPA 353.2	Primary Inorganic Contaminants	NELAP	2/6/2002

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Nitrite	EPA 300.0	Primary Inorganic Contaminants	NELAP	2/6/2002
Nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	2/6/2002
n-Propylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Orthophosphate as P	EPA 365.1	Primary Inorganic Contaminants	NELAP	12/2/2005
Orthophosphate as P	SM 4500-P F	Primary Inorganic Contaminants	NELAP	11/18/2008
o-Xylene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/2/2005
pH	EPA 150.1	Secondary Inorganic Contaminants,Primary Inorganic Contaminants	NELAP	2/6/2002
pH	SM 4500-H+-B	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	NELAP	7/30/2007
p-Isopropyltoluene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Potassium	EPA 200.7	Secondary Inorganic Contaminants	NELAP	3/25/2003
Residue-filterable (TDS)	EPA 160.1	Secondary Inorganic Contaminants	NELAP	2/6/2002
Residue-filterable (TDS)	SM 2540 C	Secondary Inorganic Contaminants	NELAP	2/6/2002
sec-Butylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Selenium	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Silica as SiO2	EPA 200.7	Primary Inorganic Contaminants	NELAP	10/5/2020
Silver	EPA 200.7	Secondary Inorganic Contaminants	NELAP	2/6/2002
Silver	EPA 200.8	Secondary Inorganic Contaminants	NELAP	6/24/2003
Sodium	EPA 200.7	Primary Inorganic Contaminants	NELAP	2/6/2002
Styrene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Sulfate	EPA 300.0	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	NELAP	2/6/2002
Sulfate	EPA 375.4	Secondary Inorganic Contaminants	NELAP	2/6/2002
tert-Butylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	12/12/2003
Tetrachloroethylene (Perchloroethylene)	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Thallium	EPA 200.8	Primary Inorganic Contaminants	NELAP	6/24/2003
Toluene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Total haloacetic acids (HAA5)	EPA 552.2	Synthetic Organic Contaminants	NELAP	12/2/2005
Total nitrate-nitrite	EPA 300.0	Primary Inorganic Contaminants	NELAP	2/6/2002
Total nitrate-nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	2/6/2002
Total organic carbon	SM 5310 B	Primary Inorganic Contaminants	NELAP	12/2/2005
Total trihalomethanes	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
trans-1,2-Dichloroethylene	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
trans-1,3-Dichloropropene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Trichloroacetic acid	EPA 552.2	Group I Unregulated Contaminants	NELAP	9/5/2002

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E87052
Eurofins Savannah
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Savannah, GA 31404

Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Trichloroethene (Trichloroethylene)	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Trichlorofluoromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/6/2002
Turbidity	EPA 180.1	Secondary Inorganic Contaminants	NELAP	2/6/2002
Turbidity	SM 2130 B	Secondary Inorganic Contaminants	NELAP	2/6/2002
UV 254	SM 5910 B	Primary Inorganic Contaminants	NELAP	12/2/2005
Vanadium	EPA 200.7	Secondary Inorganic Contaminants	NELAP	12/2/2005
Vanadium	EPA 200.8	Secondary Inorganic Contaminants	NELAP	3/19/2012
Vinyl chloride	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Xylene (total)	EPA 524.2	Other Regulated Contaminants	NELAP	2/6/2002
Zinc	EPA 200.7	Secondary Inorganic Contaminants	NELAP	12/2/2010
Zinc	EPA 200.8	Secondary Inorganic Contaminants	NELAP	6/24/2003

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,1-Trichloroethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2,2-Tetrachloroethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260	Volatile Organics	NELAP	12/4/2020
1,1,2-Trichloroethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethylene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	3/28/2014
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2-Dichloroethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichloropropane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2-Diphenylhydrazine (as Azobenzene)	EPA 625.1	Extractable Organics	NELAP	12/4/2020
1,3,5-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/28/2014
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 624.1	Volatile Organics	NELAP	9/15/2022
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	4/18/2011
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270	Volatile Organics	NELAP	7/1/2003
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	7/30/2007
1-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	7/30/2007
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,3-Dichlorobiphenyl (BZ 5)	EPA 625.1	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
2,4,5-T	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4,5-Trichlorobiphenyl (BZ 29)	EPA 625.1	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,6-Trichlorophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-D	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4-DB	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4-Dichlorophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dimethylphenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018

Laboratory Scope of Accreditation

Attachment to Certificate #: E87052-69, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloroethyl vinyl ether	EPA 624.1	Volatile Organics	NELAP	4/4/2018
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloronaphthalene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Hexanone	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Methyl-4,6-dinitrophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylnaphthalene	EPA 8260	Volatile Organics	NELAP	3/28/2014
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Naphthylamine	EPA 8270	Extractable Organics	NELAP	7/30/2007
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitrophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitropropane	EPA 8260	Volatile Organics	NELAP	3/28/2014
2-Pentanone	EPA 8015	Volatile Organics	NELAP	7/30/2007
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,3'-Dichlorobenzidine	EPA 625.1	Extractable Organics	NELAP	4/4/2018
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,3-Dimethyl-1-butanol	EPA 8260	Volatile Organics	NELAP	9/14/2021
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,5-Dichlorobenzoic acid	EPA 8151	Extractable Organics	NELAP	7/30/2007
3/4-Methylphenols (m/p-Cresols)	EPA 8270	Extractable Organics	NELAP	11/18/2008

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	7/30/2007
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4,4'-DDD	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDE	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDT	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Bromophenyl phenyl ether	EPA 625.1	Extractable Organics	NELAP	4/4/2018
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloro-3-methylphenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorophenyl phenylether	EPA 625.1	Extractable Organics	NELAP	4/4/2018
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitrophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitroquinoline 1-oxide	EPA 8270	Extractable Organics	NELAP	7/1/2003
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
a,a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Acenaphthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthylene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acetone	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetophenone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acifluorfen	EPA 8151	Extractable Organics	NELAP	7/30/2007
Acrolein (Propenal)	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	7/1/2003

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Acrylamide	EPA 8316	Volatile Organics	NELAP	9/20/2017
Acrylic acid	SOP SA-LC-074	Volatile Organics	NELAP	9/20/2017
Acrylonitrile	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Adsorbable organic halogens (AOX)	EPA 1650	General Chemistry	NELAP	2/6/2002
Aldrin	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Alkalinity as CaCO3	EPA 310.1	General Chemistry	NELAP	2/6/2002
Alkalinity as CaCO3	SM 2320 B	General Chemistry	NELAP	2/6/2002
Allyl alcohol	EPA 8015	Volatile Organics	NELAP	7/30/2007
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aluminum	EPA 200.7	Metals	NELAP	2/6/2002
Aluminum	EPA 200.8	Metals	NELAP	10/17/2003
Aluminum	EPA 6010	Metals	NELAP	7/1/2003
Aluminum	EPA 6020	Metals	NELAP	10/17/2003
Amenable cyanide	EPA 335.1	General Chemistry	NELAP	2/6/2002
Amenable cyanide	EPA 9012	General Chemistry	NELAP	7/1/2003
Amenable cyanide	SM 4500-CN- G	General Chemistry	NELAP	2/6/2002
a-Methylstyrene	EPA 8260	Volatile Organics	NELAP	3/28/2014
Ammonia as N	EPA 350.1	General Chemistry	NELAP	2/6/2002
Aniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Antimony	EPA 200.7	Metals	NELAP	2/6/2002
Antimony	EPA 200.8	Metals	NELAP	10/17/2003
Antimony	EPA 6010	Metals	NELAP	7/1/2003
Antimony	EPA 6020	Metals	NELAP	10/17/2003
Aramite	EPA 8270	Extractable Organics	NELAP	7/1/2003
Aroclor-1016 (PCB-1016)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1221 (PCB-1221)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1232 (PCB-1232)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018

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Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1242 (PCB-1242)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1248 (PCB-1248)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1254 (PCB-1254)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1260 (PCB-1260)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1262 (PCB-1262)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
Aroclor-1268 (PCB-1268)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
Arsenic	EPA 200.7	Metals	NELAP	2/6/2002
Arsenic	EPA 200.8	Metals	NELAP	10/17/2003
Arsenic	EPA 6010	Metals	NELAP	7/1/2003
Arsenic	EPA 6020	Metals	NELAP	10/17/2003
Atrazine	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
Barium	EPA 200.7	Metals	NELAP	2/6/2002
Barium	EPA 200.8	Metals	NELAP	10/17/2003
Barium	EPA 6010	Metals	NELAP	7/1/2003
Barium	EPA 6020	Metals	NELAP	10/17/2003
Bentazon	EPA 8151	Extractable Organics	NELAP	7/30/2007
Benzaldehyde	EPA 8270	Extractable Organics	NELAP	12/4/2020
Benzene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Benzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Benzidine	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Benzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)anthracene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzoic acid	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzyl chloride	EPA 8260	Volatile Organics	NELAP	3/28/2014
Beryllium	EPA 200.7	Metals	NELAP	2/6/2002
Beryllium	EPA 200.8	Metals	NELAP	10/17/2003
Beryllium	EPA 6010	Metals	NELAP	7/1/2003
Beryllium	EPA 6020	Metals	NELAP	10/17/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Biochemical oxygen demand	EPA 405.1	General Chemistry	NELAP	2/6/2002
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	2/6/2002
Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270	Extractable Organics	NELAP	12/4/2020
bis(2-Chloroethoxy)methane	EPA 625.1	Extractable Organics	NELAP	4/4/2018
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Chloroethyl) ether	EPA 625.1	Extractable Organics	NELAP	4/4/2018
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
Boron	EPA 200.7	Metals	NELAP	2/6/2002
Boron	EPA 6010	Metals	NELAP	7/1/2003
Bromate	EPA 300.0	General Chemistry	NELAP	3/22/2013
Bromate	EPA 300.1	General Chemistry	NELAP	7/30/2007
Bromide	EPA 300.0	General Chemistry	NELAP	2/6/2002
Bromide	EPA 300.1	General Chemistry	NELAP	7/30/2007
Bromide	EPA 9056	General Chemistry	NELAP	7/1/2003
Bromobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromodichloromethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromoform	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Bromoform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Butyl Acrylate	EPA 8260	Volatile Organics	NELAP	3/28/2014
Butyl benzyl phthalate	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Cadmium	EPA 200.7	Metals	NELAP	2/6/2002
Cadmium	EPA 200.8	Metals	NELAP	10/17/2003
Cadmium	EPA 6010	Metals	NELAP	7/1/2003
Cadmium	EPA 6020	Metals	NELAP	10/17/2003

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E87052
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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Calcium	EPA 200.7	Metals	NELAP	2/6/2002
Calcium	EPA 6010	Metals	NELAP	7/1/2003
Calcium	EPA 6020	Metals	NELAP	10/17/2003
Caprolactam	EPA 8270	Extractable Organics	NELAP	12/4/2020
Carbazole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbon tetrachloride	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	2/6/2002
Chemical oxygen demand	EPA 410.4	General Chemistry	NELAP	2/6/2002
Chemical oxygen demand	SM 5220 D	General Chemistry	NELAP	7/30/2007
Chloramben	EPA 8151	Extractable Organics	NELAP	7/30/2007
Chlorate	EPA 300.1	General Chemistry	NELAP	7/30/2007
Chlordane (tech.)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chloride	EPA 300.0	General Chemistry	NELAP	2/6/2002
Chloride	EPA 325.2	General Chemistry	NELAP	2/6/2002
Chloride	EPA 9056	General Chemistry	NELAP	7/1/2003
Chloride	EPA 9251	General Chemistry	NELAP	7/1/2003
Chloride	SM 4500-Cl^- E	General Chemistry	NELAP	7/30/2007
Chlorite	EPA 300.1	General Chemistry	NELAP	7/30/2007
Chlorobenzene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chlorobenzilate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chloroethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Chloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroform	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Chloroform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroprene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chromium	EPA 200.7	Metals	NELAP	2/6/2002
Chromium	EPA 200.8	Metals	NELAP	10/17/2003
Chromium	EPA 6010	Metals	NELAP	7/1/2003
Chromium	EPA 6020	Metals	NELAP	10/17/2003
Chromium VI	EPA 7196	Metals	NELAP	7/30/2007
Chromium VI	SM 3500-Cr B (20th/21st/22nd Ed.)/UV-VIS	General Chemistry	NELAP	4/18/2011

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E87052
Eurofins Savannah
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Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Chromium VI	SM 3500-Cr D (18th/19th Ed.)/UV-VIS	General Chemistry	NELAP	2/6/2002
Chrysene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Chrysene	EPA 8270	Extractable Organics	NELAP	7/1/2003
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
cis-1,3-Dichloropropene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Cobalt	EPA 200.7	Metals	NELAP	2/6/2002
Cobalt	EPA 200.8	Metals	NELAP	10/17/2003
Cobalt	EPA 6010	Metals	NELAP	7/1/2003
Cobalt	EPA 6020	Metals	NELAP	10/17/2003
Color	EPA 110.2	General Chemistry	NELAP	2/6/2002
Color	SM 2120 B	General Chemistry	NELAP	7/30/2007
Conductivity	EPA 120.1	General Chemistry	NELAP	2/6/2002
Conductivity	EPA 9050	General Chemistry	NELAP	7/30/2007
Conductivity	SM 2510 B	General Chemistry	NELAP	7/30/2007
Copper	EPA 200.7	Metals	NELAP	2/6/2002
Copper	EPA 200.8	Metals	NELAP	10/17/2003
Copper	EPA 6010	Metals	NELAP	7/1/2003
Copper	EPA 6020	Metals	NELAP	10/17/2003
Corrosivity (langlier index)	SM 2330 B	General Chemistry	NELAP	2/6/2002
Cyanide	EPA 335.4	General Chemistry	NELAP	2/6/2002
Cyanide	SM 4500-CN E	General Chemistry	NELAP	2/6/2002
Cyclohexane	EPA 8260	Volatile Organics	NELAP	12/4/2020
Dacthal (DCPA)	EPA 8151	Extractable Organics	NELAP	7/30/2007
Dalapon	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
delta-BHC	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Di(2-ethylhexyl) phthalate (DEHP)	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Diallate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dibenz(a,h)anthracene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibromochloromethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003

Laboratory Scope of Accreditation

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Dibromomethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dicamba	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dichlorodifluoromethane	EPA 624.1	Volatile Organics	NELAP	12/4/2020
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dichloroprop (Dichlorprop)	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dieldrin	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	7/1/2003
Diethyl ether	EPA 8260	Volatile Organics	NELAP	7/1/2003
Diethyl phthalate	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-isopropylether (DIPE)	EPA 8260	Volatile Organics	NELAP	3/28/2014
Dimethoate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dimethyl phthalate	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-n-butyl phthalate	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-n-octyl phthalate	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Disulfoton	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan I	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan II	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan sulfate	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin aldehyde	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	9/29/2020

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Ethane	RSK-175	Volatile Organics	NELAP	12/2/2005
Ethanol	EPA 8015	Volatile Organics	NELAP	7/1/2003
Ethanol	EPA 8260	Volatile Organics	NELAP	4/18/2011
Ethyl acetate	EPA 1666	Volatile Organics	NELAP	7/30/2007
Ethyl acetate	EPA 8015	Volatile Organics	NELAP	7/1/2003
Ethyl acetate	EPA 8260	Volatile Organics	NELAP	3/28/2014
Ethyl acrylate	EPA 8260	Volatile Organics	NELAP	3/28/2014
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Ethylbenzene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Ethylene	RSK-175	Volatile Organics	NELAP	12/2/2005
Ethylene glycol	EPA 8015	Volatile Organics	NELAP	7/30/2007
Ethyl-t-butylether (ETBE)	EPA 8260	Volatile Organics	NELAP	3/28/2014
Famphur	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Fluoranthene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluorene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Fluorene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluoride	EPA 300.0	General Chemistry	NELAP	2/6/2002
Fluoride	EPA 9056	General Chemistry	NELAP	7/1/2003
Furan	EPA 8260	Volatile Organics	NELAP	3/28/2014
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	7/1/2003
Hardness	EPA 130.2	General Chemistry	NELAP	11/18/2008
Hardness	SM 2340 B	General Chemistry	NELAP	2/6/2002
Hardness	SM 2340 C	General Chemistry	NELAP	11/18/2008
Hardness (calc.)	EPA 200.7	Metals	NELAP	7/30/2007
Heptachlor	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Heptachlor epoxide	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Hexachlorobenzene	EPA 625.1	Extractable Organics	NELAP	4/4/2018

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Hexachlorobenzene	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Hexachlorobutadiene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorocyclopentadiene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachloroethane	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorophene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Ignitability	EPA 1010	General Chemistry	NELAP	9/15/2022
Indeno(1,2,3-cd)pyrene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Iron	EPA 200.7	Metals	NELAP	2/6/2002
Iron	EPA 6010	Metals	NELAP	7/1/2003
Iron	EPA 6020	Metals	NELAP	10/17/2003
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8015	Volatile Organics	NELAP	7/30/2007
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Isodrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Isophorone	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Isophorone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Isopropyl acetate	EPA 1666	Volatile Organics	NELAP	7/30/2007
Isopropyl alcohol (2-Propanol)	EPA 8015	Volatile Organics	NELAP	7/30/2007
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Isosafrole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Kepone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Kjeldahl nitrogen - total	EPA 351.2	General Chemistry	NELAP	2/6/2002
Lead	EPA 200.7	Metals	NELAP	2/6/2002
Lead	EPA 200.8	Metals	NELAP	10/17/2003
Lead	EPA 6010	Metals	NELAP	7/1/2003
Lead	EPA 6020	Metals	NELAP	10/17/2003
Lithium	EPA 200.7	Metals	NELAP	9/15/2022
Lithium	EPA 6010	Metals	NELAP	9/15/2022
m+p-Xylenes	EPA 8260	Volatile Organics	NELAP	7/30/2007
Magnesium	EPA 200.7	Metals	NELAP	2/6/2002

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Magnesium	EPA 6010	Metals	NELAP	7/1/2003
Magnesium	EPA 6020	Metals	NELAP	10/17/2003
Manganese	EPA 200.7	Metals	NELAP	2/6/2002
Manganese	EPA 200.8	Metals	NELAP	10/17/2003
Manganese	EPA 6010	Metals	NELAP	7/1/2003
Manganese	EPA 6020	Metals	NELAP	10/17/2003
MCPA	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
MCPP	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Mercury	EPA 200.8	Metals	NELAP	10/17/2003
Mercury	EPA 245.1	Metals	NELAP	2/6/2002
Mercury	EPA 6020	Metals	NELAP	10/17/2003
Mercury	EPA 7470	Metals	NELAP	7/1/2003
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methane	RSK-175	Volatile Organics	NELAP	12/2/2005
Methanol	EPA 8015	Volatile Organics	NELAP	7/30/2007
Methapyrilene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Methoxychlor	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methyl acetate	EPA 8260	Volatile Organics	NELAP	12/4/2020
Methyl bromide (Bromomethane)	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl chloride (Chloromethane)	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Methyl parathion (Parathion, methyl)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methylcyclohexane	EPA 8260	Volatile Organics	NELAP	12/4/2020
Methylene chloride	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Methylene chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Mirex	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
Molybdenum	EPA 200.7	Metals	NELAP	2/6/2002
Molybdenum	EPA 200.8	Metals	NELAP	10/17/2003
Molybdenum	EPA 6010	Metals	NELAP	7/1/2003

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Molybdenum	EPA 6020	Metals	NELAP	7/30/2007
n-Amyl acetate	EPA 1666	Volatile Organics	NELAP	7/30/2007
Naphthalene	EPA 624.1	Volatile Organics	NELAP	9/15/2022
Naphthalene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Naphthalene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Naphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Butyl Acetate	EPA 1666	Volatile Organics	NELAP	7/30/2007
n-Butyl Acetate	EPA 8260	Volatile Organics	NELAP	3/28/2014
n-Butyl alcohol	EPA 8015	Volatile Organics	NELAP	7/30/2007
n-Butyl alcohol	EPA 8260	Volatile Organics	NELAP	3/28/2014
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Nickel	EPA 200.7	Metals	NELAP	2/6/2002
Nickel	EPA 200.8	Metals	NELAP	10/17/2003
Nickel	EPA 6010	Metals	NELAP	7/1/2003
Nickel	EPA 6020	Metals	NELAP	10/17/2003
Nitrate	EPA 9056	General Chemistry	NELAP	7/1/2003
Nitrate as N	EPA 300.0	General Chemistry	NELAP	2/6/2002
Nitrate as N	EPA 353.2	General Chemistry	NELAP	2/6/2002
Nitrate-nitrite	EPA 300.0	General Chemistry	NELAP	2/6/2002
Nitrate-nitrite	EPA 353.2	General Chemistry	NELAP	2/6/2002
Nitrite	EPA 9056	General Chemistry	NELAP	7/1/2003
Nitrite as N	EPA 300.0	General Chemistry	NELAP	2/6/2002
Nitrite as N	EPA 353.2	General Chemistry	NELAP	2/6/2002
Nitrobenzene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodimethylamine	EPA 625.1	Extractable Organics	NELAP	4/4/2018
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodi-n-propylamine	EPA 625.1	Extractable Organics	NELAP	4/4/2018
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiphenylamine	EPA 625.1	Extractable Organics	NELAP	4/4/2018
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	7/1/2003

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Propanol	EPA 8015	Volatile Organics	NELAP	7/30/2007
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Oil & Grease	EPA 1664A	General Chemistry	NELAP	12/2/2015
Organic nitrogen	TKN minus AMMONIA	General Chemistry	NELAP	7/30/2007
Orthophosphate as P	EPA 365.1	General Chemistry	NELAP	11/18/2008
Orthophosphate as P	SM 4500-P F	General Chemistry	NELAP	11/18/2008
o-Toluidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
o-Xylene	EPA 8260	Volatile Organics	NELAP	7/30/2007
Parathion, ethyl	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Pentachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Pentachloronitrobenzene (Quintozene)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentachlorophenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Pentachlorophenol	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
pH	EPA 150.1	General Chemistry	NELAP	2/6/2002
pH	EPA 9040	General Chemistry	NELAP	7/1/2003
pH	SM 4500-H+-B	General Chemistry	NELAP	7/30/2007
Phenacetin	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phenanthrene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Phenanthrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phenol	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Phenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phorate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Phosphorus, total	EPA 365.4	General Chemistry	NELAP	2/6/2002
Picloram	EPA 8151	Extractable Organics	NELAP	7/30/2007
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Potassium	EPA 200.7	Metals	NELAP	2/6/2002
Potassium	EPA 6010	Metals	NELAP	7/1/2003
Potassium	EPA 6020	Metals	NELAP	10/17/2003
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Pyrene	EPA 625.1	Extractable Organics	NELAP	4/4/2018
Pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Pyridine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Residual free chlorine	EPA 330.3	General Chemistry	NELAP	2/6/2002
Residue-filterable (TDS)	EPA 160.1	General Chemistry	NELAP	2/6/2002
Residue-filterable (TDS)	SM 2540 C	General Chemistry	NELAP	7/30/2007
Residue-nonfilterable (TSS)	EPA 160.2	General Chemistry	NELAP	2/6/2002
Residue-nonfilterable (TSS)	SM 2540 D	General Chemistry	NELAP	7/30/2007
Residue-settleable	EPA 160.5	General Chemistry	NELAP	2/6/2002
Residue-settleable	SM 2540 F	General Chemistry	NELAP	11/18/2008
Residue-total	EPA 160.3	General Chemistry	NELAP	2/6/2002
Residue-total	SM 2540 B	General Chemistry	NELAP	7/30/2007
Residue-volatile	EPA 160.4	General Chemistry	NELAP	2/6/2002
Residue-volatile	SM 2540 E	General Chemistry	NELAP	2/6/2002
Safrole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Salinity	SM 2520 B	General Chemistry	NELAP	2/6/2002
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Selenium	EPA 200.7	Metals	NELAP	2/6/2002
Selenium	EPA 200.8	Metals	NELAP	10/17/2003
Selenium	EPA 6010	Metals	NELAP	7/1/2003
Selenium	EPA 6020	Metals	NELAP	10/17/2003
Silica as SiO2	EPA 200.7	Metals	NELAP	7/30/2007
Silicon	EPA 200.7	Metals	NELAP	2/6/2002
Silicon	EPA 6010	General Chemistry	NELAP	7/30/2007
Silver	EPA 200.7	Metals	NELAP	2/6/2002
Silver	EPA 200.8	Metals	NELAP	10/17/2003
Silver	EPA 6010	Metals	NELAP	7/1/2003
Silver	EPA 6020	Metals	NELAP	10/17/2003
Silvex (2,4,5-TP)	EPA 615	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Sodium	EPA 200.7	Metals	NELAP	2/6/2002
Sodium	EPA 6010	Metals	NELAP	7/1/2003
Sodium	EPA 6020	Metals	NELAP	10/17/2003
Strontium	EPA 200.7	Metals	NELAP	2/6/2002
Strontium	EPA 6010	Metals	NELAP	7/1/2003
Styrene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Sulfate	EPA 300.0	General Chemistry	NELAP	2/6/2002
Sulfate	EPA 375.4	General Chemistry	NELAP	2/6/2002

Laboratory Scope of Accreditation

Attachment to Certificate #: E87052-69, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Sulfate	EPA 9038	General Chemistry	NELAP	7/1/2003
Sulfate	EPA 9056	General Chemistry	NELAP	7/1/2003
Sulfide	EPA 376.1	General Chemistry	NELAP	7/30/2007
Sulfide	EPA 9030	General Chemistry	NELAP	7/1/2003
Sulfide	EPA 9034	General Chemistry	NELAP	7/1/2003
Sulfide	SM 4500-S F (19th/20th/21st Ed.)/TITR	General Chemistry	NELAP	7/30/2007
Sulfite-SO3	EPA 377.1	General Chemistry	NELAP	9/15/2022
Sulfite-SO3	SM 4500-SO3 B	General Chemistry	NELAP	9/15/2022
Sulfotepp	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
T-amylmethylether (TAME)	EPA 8260	Volatile Organics	NELAP	3/28/2014
tert-Amyl Alcohol	EPA 8260	Volatile Organics	NELAP	9/14/2021
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8015	Volatile Organics	NELAP	7/30/2007
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260	Volatile Organics	NELAP	7/30/2007
tert-Butyl Formate	EPA 8260	Volatile Organics	NELAP	9/14/2021
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Tetrachloroethylene (Perchloroethylene)	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Thallium	EPA 200.7	Metals	NELAP	2/6/2002
Thallium	EPA 200.8	Metals	NELAP	10/17/2003
Thallium	EPA 6010	Metals	NELAP	7/1/2003
Thallium	EPA 6020	Metals	NELAP	10/17/2003
Thionazin (Zinophos)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Tin	EPA 200.7	Metals	NELAP	2/6/2002
Tin	EPA 6010	Metals	NELAP	7/1/2003
Titanium	EPA 200.7	Metals	NELAP	2/6/2002
Titanium	EPA 6010	General Chemistry	NELAP	7/30/2007
Toluene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Toluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Total cyanide	EPA 9012	General Chemistry	NELAP	7/1/2003
Total nitrate-nitrite	EPA 9056	General Chemistry	NELAP	7/1/2003
Total organic carbon	EPA 415.1	General Chemistry	NELAP	2/6/2002
Total organic carbon	EPA 9060	General Chemistry	NELAP	7/1/2003
Total organic carbon	SM 5310 B	General Chemistry	NELAP	7/30/2007
Total organic halides (TOX)	EPA 9020	General Chemistry	NELAP	7/1/2003
Total Petroleum Hydrocarbons (TPH)	EPA 1664A	General Chemistry	NELAP	2/6/2002
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	9/15/2022

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Total phenolics	EPA 420.1	General Chemistry	NELAP	2/6/2002
Total phenolics	EPA 9065	General Chemistry	NELAP	7/1/2003
Total residual chlorine	SM 4500 Cl B	General Chemistry	NELAP	11/18/2008
Toxaphene (Chlorinated camphene)	EPA 608.3	Pesticides-Herbicides-PCB's	NELAP	4/4/2018
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
trans-1,2-Dichloroethylene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,3-Dichloropropene	EPA 624.1	Volatile Organics	NELAP	4/4/2018
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	7/30/2007
Trichloroethene (Trichloroethylene)	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichlorofluoromethane	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Turbidity	EPA 180.1	General Chemistry	NELAP	2/6/2002
Turbidity	SM 2130 B	General Chemistry	NELAP	7/30/2007
Un-Ionized Ammonia	DEP SOP 10/03/83	General Chemistry	NELAP	7/30/2007
Vanadium	EPA 200.7	Metals	NELAP	2/6/2002
Vanadium	EPA 200.8	Metals	NELAP	10/17/2003
Vanadium	EPA 6010	Metals	NELAP	7/1/2003
Vanadium	EPA 6020	Metals	NELAP	10/17/2003
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Vinyl chloride	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Xylene (total)	EPA 624.1	Volatile Organics	NELAP	4/4/2018
Xylene (total)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Zinc	EPA 200.7	Metals	NELAP	2/6/2002
Zinc	EPA 200.8	Metals	NELAP	10/17/2003
Zinc	EPA 6010	Metals	NELAP	7/1/2003
Zinc	EPA 6020	Metals	NELAP	10/17/2003

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260	Volatile Organics	NELAP	12/4/2020
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2,3-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	3/28/2014
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,3,5-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/28/2014
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	4/18/2011
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270	Volatile Organics	NELAP	12/4/2020
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	2/6/2002
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	7/30/2007

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	7/30/2007
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	2/6/2002
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	2/6/2002
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	2/6/2002
2-Hexanone	EPA 8260	Volatile Organics	NELAP	2/6/2002
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Methylnaphthalene	EPA 8260	Volatile Organics	NELAP	3/28/2014
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Naphthylamine	EPA 8270	Extractable Organics	NELAP	7/30/2007
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
2-Nitropropane	EPA 8260	Volatile Organics	NELAP	3/28/2014
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	2/6/2002
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	2/6/2002
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	2/6/2002
3,5-Dichlorobenzoic acid	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
3/4-Methylphenols (m/p-Cresols)	EPA 8270	Extractable Organics	NELAP	11/18/2008
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	7/30/2007

Laboratory Scope of Accreditation

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	2/6/2002
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	2/6/2002
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	2/6/2002
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	2/6/2002
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	2/6/2002
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	2/6/2002
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	2/6/2002
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	2/6/2002
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	2/6/2002
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	2/6/2002
a,a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
Acenaphthene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Acetone	EPA 8260	Volatile Organics	NELAP	2/6/2002
Acetonitrile	EPA 8260	Volatile Organics	NELAP	2/6/2002
Acetophenone	EPA 8270	Extractable Organics	NELAP	2/6/2002
Acifluorfen	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	2/6/2002
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	2/6/2002
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aluminum	EPA 6010	Metals	NELAP	3/23/2012
Aluminum	EPA 6020	Metals	NELAP	10/17/2003
Amenable cyanide	EPA 9012	General Chemistry	NELAP	2/6/2002
a-Methylstyrene	EPA 8260	Volatile Organics	NELAP	3/28/2014
Ammonia as N	EPA 350.1	General Chemistry	NELAP	7/30/2007
Aniline	EPA 8270	Extractable Organics	NELAP	2/6/2002
Anthracene	EPA 8270	Extractable Organics	NELAP	2/6/2002

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Antimony	EPA 6010	Metals	NELAP	2/6/2002
Antimony	EPA 6020	Metals	NELAP	10/17/2003
Aramite	EPA 8270	Extractable Organics	NELAP	2/6/2002
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Aroclor-1262 (PCB-1262)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
Aroclor-1268 (PCB-1268)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
Arsenic	EPA 6010	Metals	NELAP	2/6/2002
Arsenic	EPA 6020	Metals	NELAP	10/17/2003
Atrazine	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	12/4/2020
Barium	EPA 6010	Metals	NELAP	2/6/2002
Barium	EPA 6020	Metals	NELAP	10/17/2003
Bentazon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
Benzaldehyde	EPA 8270	Extractable Organics	NELAP	12/4/2020
Benzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Benzidine	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzoic acid	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	2/6/2002
Benzyl chloride	EPA 8260	Volatile Organics	NELAP	3/28/2014
Beryllium	EPA 6010	Metals	NELAP	2/6/2002
Beryllium	EPA 6020	Metals	NELAP	10/17/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270	Extractable Organics	NELAP	12/4/2020
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	2/6/2002
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	2/6/2002
Boron	EPA 6010	Metals	NELAP	2/6/2002

Laboratory Scope of Accreditation

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State Laboratory ID: **E87052** EPA Lab Code: **GA00006** **(912) 354-7858**

E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Bromide	EPA 300.0	General Chemistry	NELAP	7/30/2007
Bromide	EPA 9056	General Chemistry	NELAP	2/6/2002
Bromobenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Bromoform	EPA 8260	Volatile Organics	NELAP	2/6/2002
Butyl Acrylate	EPA 8260	Volatile Organics	NELAP	3/28/2014
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	2/6/2002
Cadmium	EPA 6010	Metals	NELAP	2/6/2002
Cadmium	EPA 6020	Metals	NELAP	10/17/2003
Calcium	EPA 6010	Metals	NELAP	2/6/2002
Calcium	EPA 6020	Metals	NELAP	10/17/2003
Caprolactam	EPA 8270	Extractable Organics	NELAP	12/4/2020
Carbazole	EPA 8270	Extractable Organics	NELAP	2/6/2002
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	2/6/2002
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	2/6/2002
Chloramben	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Chloride	EPA 300.0	General Chemistry	NELAP	7/30/2007
Chloride	EPA 9056	General Chemistry	NELAP	2/6/2002
Chloride	EPA 9251	General Chemistry	NELAP	12/4/2020
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Chlorobenzilate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Chloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Chloroform	EPA 8260	Volatile Organics	NELAP	2/6/2002
Chloroprene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Chromium	EPA 6010	Metals	NELAP	2/6/2002
Chromium	EPA 6020	Metals	NELAP	10/17/2003
Chrysene	EPA 8270	Extractable Organics	NELAP	2/6/2002
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	2/6/2002
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Cobalt	EPA 6010	Metals	NELAP	2/6/2002
Cobalt	EPA 6020	Metals	NELAP	10/17/2003
Copper	EPA 6010	Metals	NELAP	2/6/2002
Copper	EPA 6020	Metals	NELAP	10/17/2003
Cyclohexane	EPA 8260	Volatile Organics	NELAP	12/4/2020

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Dacthal (DCPA)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	2/6/2002
Diallate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	2/6/2002
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Dibromomethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	2/6/2002
Diethyl ether	EPA 8260	Volatile Organics	NELAP	2/6/2002
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	2/6/2002
Di-isopropylether (DIPE)	EPA 8260	Volatile Organics	NELAP	3/28/2014
Dimethoate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	2/6/2002
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	2/6/2002
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	2/6/2002
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Disulfoton	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Ethanol	EPA 8015	Volatile Organics	NELAP	2/6/2002
Ethanol	EPA 8260	Volatile Organics	NELAP	3/28/2014
Ethyl acetate	EPA 8015	Volatile Organics	NELAP	2/6/2002
Ethyl acetate	EPA 8260	Volatile Organics	NELAP	3/28/2014
Ethyl acrylate	EPA 8260	Volatile Organics	NELAP	3/28/2014
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	2/6/2002

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E87052
Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	2/6/2002
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Ethylene glycol	EPA 8015	Volatile Organics	NELAP	7/30/2007
Ethyl-t-butylether (ETBE)	EPA 8260	Volatile Organics	NELAP	3/28/2014
Famphur	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Fluoranthene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Fluorene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Fluoride	EPA 300.0	General Chemistry	NELAP	7/30/2007
Fluoride	EPA 9056	General Chemistry	NELAP	2/6/2002
Furan	EPA 8260	Volatile Organics	NELAP	3/28/2014
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	2/6/2002
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Hexachlorobenzene	EPA 8270	Pesticides-Herbicides-PCB's,Extractable Organics	NELAP	2/6/2002
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	2/6/2002
Hexachlorophene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Ignitability	EPA 1010	General Chemistry	NELAP	9/15/2022
Ignitability	EPA 1030	General Chemistry	NELAP	7/30/2007
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Iron	EPA 6010	Metals	NELAP	2/6/2002
Iron	EPA 6020	Metals	NELAP	10/17/2003
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8015	Volatile Organics	NELAP	7/30/2007
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Isodrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Isophorone	EPA 8270	Extractable Organics	NELAP	2/6/2002
Isopropyl alcohol (2-Propanol)	EPA 8015	Volatile Organics	NELAP	7/30/2007
Isopropyl alcohol (2-Propanol)	EPA 8260	Volatile Organics	NELAP	3/28/2014
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002

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Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Isosafrole	EPA 8270	Extractable Organics	NELAP	2/6/2002
Kepone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Kjeldahl nitrogen - total	EPA 351.2	General Chemistry	NELAP	12/2/2005
Lead	EPA 6010	Metals	NELAP	2/6/2002
Lead	EPA 6020	Metals	NELAP	10/17/2003
Lithium	EPA 6010	Metals	NELAP	9/15/2022
m+p-Xylenes	EPA 8260	Volatile Organics	NELAP	7/30/2007
Magnesium	EPA 6010	Metals	NELAP	2/6/2002
Magnesium	EPA 6020	Metals	NELAP	10/17/2003
Manganese	EPA 6010	Metals	NELAP	2/6/2002
Manganese	EPA 6020	Metals	NELAP	10/17/2003
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Mercury	EPA 6020	Metals	NELAP	7/30/2007
Mercury	EPA 7471	Metals	NELAP	2/6/2002
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	2/6/2002
Methanol	EPA 8015	Volatile Organics	NELAP	7/30/2007
Methapyrilene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Methyl acetate	EPA 8260	Volatile Organics	NELAP	12/4/2020
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	2/6/2002
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	2/6/2002
Methyl parathion (Parathion, methyl)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Methylcyclohexane	EPA 8260	Volatile Organics	NELAP	12/4/2020
Methylene chloride	EPA 8260	Volatile Organics	NELAP	2/6/2002
Mirex	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
Molybdenum	EPA 6010	Metals	NELAP	2/6/2002
Molybdenum	EPA 6020	Metals	NELAP	7/30/2007
Naphthalene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Naphthalene	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Butyl Acetate	EPA 8260	Volatile Organics	NELAP	3/28/2014
n-Butyl alcohol	EPA 8015	Volatile Organics	NELAP	7/30/2007
n-Butyl alcohol	EPA 8260	Volatile Organics	NELAP	3/28/2014

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E87052
Eurofins Savannah
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Savannah, GA 31404

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Nickel	EPA 6010	Metals	NELAP	2/6/2002
Nickel	EPA 6020	Metals	NELAP	10/17/2003
Nitrate	EPA 9056	General Chemistry	NELAP	2/6/2002
Nitrate as N	EPA 300.0	General Chemistry	NELAP	7/30/2007
Nitrate as N	EPA 353.2	General Chemistry	NELAP	12/2/2005
Nitrite	EPA 9056	General Chemistry	NELAP	2/6/2002
Nitrite as N	EPA 300.0	General Chemistry	NELAP	7/30/2007
Nitrite as N	EPA 353.2	General Chemistry	NELAP	12/2/2005
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	2/6/2002
n-Propanol	EPA 8015	Volatile Organics	NELAP	7/30/2007
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Organic nitrogen	TKN minus AMMONIA	General Chemistry	NELAP	7/30/2007
Orthophosphate as P	EPA 365.1	General Chemistry	NELAP	11/18/2008
o-Xylene	EPA 8260	Volatile Organics	NELAP	7/30/2007
Paint Filter Liquids	EPA 9095	General Chemistry	NELAP	7/30/2007
Parathion, ethyl	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Pentachlorobenzene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Pentachloroethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Pentachloronitrobenzene (Quintozene)	EPA 8270	Extractable Organics	NELAP	2/6/2002
Pentachlorophenol	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	2/6/2002
pH	EPA 9045	General Chemistry	NELAP	2/6/2002
Phenacetin	EPA 8270	Extractable Organics	NELAP	2/6/2002
Phenanthrene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Phenol	EPA 8270	Extractable Organics	NELAP	2/6/2002

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Eurofins Savannah
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Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Phorate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Phosphorus, total	EPA 365.4	General Chemistry	NELAP	12/2/2005
Phosphorus, total	EPA 6010	Metals	NELAP	9/15/2022
Picloram	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/30/2007
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Potassium	EPA 6010	Metals	NELAP	2/6/2002
Potassium	EPA 6020	Metals	NELAP	10/17/2003
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	2/6/2002
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Pyrene	EPA 8270	Extractable Organics	NELAP	2/6/2002
Pyridine	EPA 8270	Extractable Organics	NELAP	2/6/2002
Safrole	EPA 8270	Extractable Organics	NELAP	2/6/2002
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Selenium	EPA 6010	Metals	NELAP	2/6/2002
Selenium	EPA 6020	Metals	NELAP	10/17/2003
Silver	EPA 6010	Metals	NELAP	2/6/2002
Silver	EPA 6020	Metals	NELAP	10/17/2003
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Sodium	EPA 6010	Metals	NELAP	2/6/2002
Sodium	EPA 6020	Metals	NELAP	10/17/2003
Strontium	EPA 6010	Metals	NELAP	2/6/2002
Styrene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Sulfate	EPA 300.0	General Chemistry	NELAP	7/30/2007
Sulfate	EPA 9038	General Chemistry	NELAP	2/6/2002
Sulfate	EPA 9056	General Chemistry	NELAP	2/6/2002
Sulfide	EPA 9030	General Chemistry	NELAP	2/6/2002
Sulfide	EPA 9034	General Chemistry	NELAP	2/6/2002
Sulfotepp	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312	General Chemistry	NELAP	2/6/2002
T-amylmethylether (TAME)	EPA 8260	Volatile Organics	NELAP	3/28/2014
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8015	Volatile Organics	NELAP	7/30/2007
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260	Volatile Organics	NELAP	7/30/2007
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Thallium	EPA 6010	Metals	NELAP	2/6/2002
Thallium	EPA 6020	Metals	NELAP	10/17/2003

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E87052
Eurofins Savannah
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Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Thionazin (Zinophos)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Tin	EPA 6010	Metals	NELAP	2/6/2002
Titanium	EPA 6010	Metals	NELAP	7/30/2007
Toluene	EPA 8260	Volatile Organics	NELAP	2/6/2002
Total cyanide	EPA 9012	General Chemistry	NELAP	2/6/2002
Total nitrate-nitrite	EPA 353.2	General Chemistry	NELAP	12/2/2005
Total nitrate-nitrite	EPA 9056	General Chemistry	NELAP	2/6/2002
Total Nitrogen	TKN + Total Nitrate-Nitrite	General Chemistry	NELAP	7/30/2007
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	9/15/2022
Total phenolics	EPA 9065	General Chemistry	NELAP	2/6/2002
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	2/6/2002
Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	General Chemistry	NELAP	2/6/2002
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	2/6/2002
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	2/6/2002
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	7/30/2007
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	2/6/2002
Vanadium	EPA 6010	Metals	NELAP	2/6/2002
Vanadium	EPA 6020	Metals	NELAP	10/17/2003
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	2/6/2002
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	2/6/2002
Xylene (total)	EPA 8260	Volatile Organics	NELAP	2/6/2002
Zinc	EPA 6010	Metals	NELAP	2/6/2002
Zinc	EPA 6020	Metals	NELAP	10/17/2003

State of Florida
Department of Health, Bureau of Public Health Laboratories
This is to certify that

E87689

EUROFINS TESTAMERICA ST. LOUIS
13715 RIDER TRAIL NORTH
EARTH CITY, MO 63045

has complied with Florida Administrative Code 64E-1,
for the examination of environmental samples in the following categories

DRINKING WATER - RADIOCHEMISTRY, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - RADIOCHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - RADIOCHEMISTRY

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2022 Expiration Date: June 30, 2023

Susanne Crowe, MHA
Interim Chief Bureau of Public Health Laboratories
DH Form 1697, 7/04
NON-TRANSFERABLE E87689-65-07/01/2022
Supersedes all previously issued certificates

Laboratory Scope of Accreditation

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State Laboratory ID: E87689 **EPA Lab Code: MO00054** **(314) 298-8566**

E87689
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Matrix: Drinking Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Gross Alpha	EPA 900.0	Radiochemistry	NELAP	1/19/2016
Gross Alpha	SM 7110 C	Radiochemistry	NELAP	2/17/2018
Gross Beta	EPA 900.0	Radiochemistry	NELAP	2/25/2015
Isotopic Uranium	DOE U-02-RC	Radiochemistry	NELAP	8/15/2018
Radium-226	EPA 903.0	Radiochemistry	NELAP	3/31/2015
Radium-228	EPA 904.0	Radiochemistry	NELAP	12/10/2008
Radon	SM 7500-Rn B	Radiochemistry	NELAP	8/15/2018
Radon-222	ST-RC-0222 / LSC	Radiochemistry	NELAP	7/1/2020
Selenium-79	ST-RC-0079 / LSC	Radiochemistry	NELAP	7/1/2020
Strontium-90	DOE Sr-02	Radiochemistry	NELAP	12/10/2008
Strontium-90	DOE Sr-03-RC	Radiochemistry	NELAP	12/10/2008
Strontium-90	EPA 905.0	Radiochemistry	NELAP	12/10/2008
Tritium	EPA 906.0	Radiochemistry	NELAP	12/10/2008
Uranium (activity)	DOE U-02	Radiochemistry	NELAP	8/15/2018
Uranium (mass)	EPA 200.8	Radiochemistry	NELAP	8/15/2018

Laboratory Scope of Accreditation

Attachment to Certificate #: E87689-65, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E87689 **EPA Lab Code: MO00054** **(314) 298-8566**

E87689
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Aluminum	EPA 200.8	Metals	NELAP	7/1/2013
Aluminum	EPA 6010	Metals	NELAP	7/1/2013
Aluminum	EPA 6020	Metals	NELAP	7/1/2013
Antimony	EPA 200.7	Metals	NELAP	7/1/2013
Antimony	EPA 200.8	Metals	NELAP	7/1/2013
Antimony	EPA 6010	Metals	NELAP	7/1/2013
Antimony	EPA 6020	Metals	NELAP	7/1/2013
Arsenic	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Arsenic	EPA 200.8	Metals	NELAP	7/1/2013
Arsenic	EPA 6010	Metals	NELAP	7/1/2013
Arsenic	EPA 6020	Metals	NELAP	7/1/2013
Barium	EPA 200.7	Metals	NELAP	7/1/2013
Barium	EPA 200.8	Metals	NELAP	7/1/2013
Barium	EPA 6010	Metals	NELAP	7/1/2013
Barium	EPA 6020	Metals	NELAP	7/1/2013
Beryllium	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Beryllium	EPA 200.8	Metals	NELAP	7/1/2013
Beryllium	EPA 6010	Metals	NELAP	7/1/2013
Beryllium	EPA 6020	Metals	NELAP	7/1/2013
Boron	EPA 200.7	Metals	NELAP	7/1/2013
Boron	EPA 6010	Metals	NELAP	7/1/2013
Boron	EPA 6020	Metals	NELAP	7/1/2013
Cadmium	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Cadmium	EPA 200.8	Metals	NELAP	7/1/2013
Cadmium	EPA 6010	Metals	NELAP	7/1/2013
Cadmium	EPA 6020	Metals	NELAP	7/1/2013
Calcium	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Calcium	EPA 6010	Metals	NELAP	7/1/2013
Calcium	EPA 6020	Metals	NELAP	7/1/2013
Chromium	EPA 200.7	Metals	NELAP	7/1/2013
Chromium	EPA 200.8	Metals	NELAP	7/1/2013
Chromium	EPA 6010	Metals	NELAP	7/1/2013
Chromium	EPA 6020	Metals	NELAP	7/1/2013
Cobalt	EPA 200.7	Metals	NELAP	7/1/2013
Cobalt	EPA 200.8	Metals	NELAP	7/1/2013

Laboratory Scope of Accreditation

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State Laboratory ID: E87689 **EPA Lab Code: MO00054** **(314) 298-8566**

E87689
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Cobalt	EPA 6010	Metals	NELAP	7/1/2013
Cobalt	EPA 6020	Metals	NELAP	7/1/2013
Copper	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Copper	EPA 200.8	Metals	NELAP	7/1/2013
Copper	EPA 6010	Metals	NELAP	7/1/2013
Copper	EPA 6020	Metals	NELAP	7/1/2013
Gamma Emitters	EPA 901.1	Radiochemistry	NELAP	7/1/2013
Gross Alpha	EPA 900.0	Radiochemistry	NELAP	7/1/2013
Gross Alpha	EPA 9310	Radiochemistry	NELAP	7/1/2013
Gross Beta	EPA 900.0	Radiochemistry	NELAP	7/1/2013
Gross Beta	EPA 9310	Radiochemistry	NELAP	7/1/2013
Iron	EPA 200.7	Metals	NELAP	7/1/2013
Iron	EPA 6010	Metals	NELAP	7/1/2013
Iron	EPA 6020	Metals	NELAP	7/1/2013
Lead	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Lead	EPA 200.8	Metals	NELAP	7/1/2013
Lead	EPA 6010	Metals	NELAP	7/1/2013
Lead	EPA 6020	Metals	NELAP	7/1/2013
Lithium	EPA 6010	Metals	NELAP	7/1/2013
Magnesium	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Magnesium	EPA 200.8	Metals	NELAP	7/1/2013
Magnesium	EPA 6010	Metals	NELAP	7/1/2013
Magnesium	EPA 6020	Metals	NELAP	7/1/2013
Manganese	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Manganese	EPA 200.8	Metals	NELAP	7/1/2013
Manganese	EPA 6010	Metals	NELAP	7/1/2013
Manganese	EPA 6020	Metals	NELAP	7/1/2013
Mercury	EPA 245.1	Metals	NELAP	7/1/2013
Mercury	EPA 7470	Metals	NELAP	7/1/2013
Molybdenum	EPA 200.7	Metals	NELAP	7/1/2013
Molybdenum	EPA 200.8	Metals	NELAP	7/1/2013
Molybdenum	EPA 6010	Metals	NELAP	7/1/2013
Molybdenum	EPA 6020	Metals	NELAP	7/1/2013
Nickel	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Nickel	EPA 200.8	Metals	NELAP	7/1/2013
Nickel	EPA 6010	Metals	NELAP	7/1/2013

Laboratory Scope of Accreditation

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State Laboratory ID: E87689 **EPA Lab Code: MO00054** **(314) 298-8566**

E87689
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Nickel	EPA 6020	Metals	NELAP	7/1/2013
Potassium	EPA 200.7	Metals	NELAP	7/1/2013
Potassium	EPA 6010	Metals	NELAP	7/1/2013
Potassium	EPA 6020	Metals	NELAP	7/1/2013
Radium-226	EPA 903.0	Radiochemistry	NELAP	7/1/2013
Radium-228	EPA 904.0	Radiochemistry	NELAP	7/1/2013
Radium-228	EPA 9320	Radiochemistry	NELAP	7/1/2013
Selenium	EPA 200.7	Metals	NELAP	7/1/2013
Selenium	EPA 200.8	Metals	NELAP	7/1/2013
Selenium	EPA 6010	Metals	NELAP	7/1/2013
Selenium	EPA 6020	Metals	NELAP	7/1/2013
Silver	EPA 200.7	Metals	NELAP	7/1/2013
Silver	EPA 200.8	Metals	NELAP	7/1/2013
Silver	EPA 6010	Metals	NELAP	7/1/2013
Silver	EPA 6020	Metals	NELAP	7/1/2013
Sodium	EPA 200.7	Metals	NELAP	7/1/2013
Sodium	EPA 6010	Metals	NELAP	7/1/2013
Sodium	EPA 6020	Metals	NELAP	7/1/2013
Strontium	EPA 200.7	Metals	NELAP	7/1/2013
Strontium	EPA 6010	Metals	NELAP	7/1/2013
Strontium	EPA 6020	Metals	NELAP	7/1/2013
Strontium-90	DOE Sr-03-RC	Radiochemistry	NELAP	7/1/2013
Strontium-90	EPA 905.0	Radiochemistry	NELAP	7/1/2013
Thallium	EPA 200.7	Metals	NELAP	7/1/2013
Thallium	EPA 200.8	Metals	NELAP	7/1/2013
Thallium	EPA 6010	Metals	NELAP	7/1/2013
Thallium	EPA 6020	Metals	NELAP	7/1/2013
Thorium	EPA 200.8	Metals	NELAP	7/1/2013
Thorium	EPA 6020	Metals	NELAP	7/1/2013
Tin	EPA 200.7	Metals	NELAP	7/1/2013
Tin	EPA 6010	Metals	NELAP	7/1/2013
Tin	EPA 6020	Metals	NELAP	7/1/2013
Titanium	EPA 200.7	Metals	NELAP	7/1/2013
Titanium	EPA 6010	Metals	NELAP	7/1/2013
Titanium	EPA 6020	Metals	NELAP	7/1/2013
Total radium	EPA 903.0	Radiochemistry	NELAP	4/21/2020

Laboratory Scope of Accreditation

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State Laboratory ID: **E87689** **EPA Lab Code:** **MO00054** **(314) 298-8566**

E87689
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Total radium	EPA 9315	Radiochemistry	NELAP	7/1/2013
Tritium	EPA 906.0	Radiochemistry	NELAP	7/1/2013
Uranium (mass)	EPA 200.8	Metals	NELAP	7/1/2013
Uranium (mass)	EPA 6020	Metals	NELAP	7/1/2013
Vanadium	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Vanadium	EPA 200.8	Metals	NELAP	7/1/2013
Vanadium	EPA 6010	Metals	NELAP	7/1/2013
Vanadium	EPA 6020	Metals	NELAP	7/1/2013
Zinc	EPA 200.7	General Chemistry,Metals	NELAP	7/1/2013
Zinc	EPA 200.8	Metals	NELAP	7/1/2013
Zinc	EPA 6010	Metals	NELAP	7/1/2013
Zinc	EPA 6020	Metals	NELAP	7/1/2013

Laboratory Scope of Accreditation

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State Laboratory ID: E87689 **EPA Lab Code: MO00054** **(314) 298-8566**

E87689
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 6010	Metals	NELAP	7/1/2013
Aluminum	EPA 6020	Metals	NELAP	7/1/2013
Antimony	EPA 6010	Metals	NELAP	7/1/2013
Antimony	EPA 6020	Metals	NELAP	7/1/2013
Arsenic	EPA 6010	Metals	NELAP	7/1/2013
Arsenic	EPA 6020	Metals	NELAP	7/1/2013
Barium	EPA 6010	Metals	NELAP	7/1/2013
Barium	EPA 6020	Metals	NELAP	7/1/2013
Beryllium	EPA 6010	Metals	NELAP	7/1/2013
Beryllium	EPA 6020	Metals	NELAP	7/1/2013
Boron	EPA 6010	Metals	NELAP	7/1/2013
Boron	EPA 6020	Metals	NELAP	7/1/2013
Cadmium	EPA 6010	Metals	NELAP	7/1/2013
Cadmium	EPA 6020	Metals	NELAP	7/1/2013
Calcium	EPA 6010	Metals	NELAP	7/1/2013
Calcium	EPA 6020	Metals	NELAP	7/1/2013
Chromium	EPA 6010	Metals	NELAP	7/1/2013
Chromium	EPA 6020	Metals	NELAP	7/1/2013
Cobalt	EPA 6010	Metals	NELAP	7/1/2013
Cobalt	EPA 6020	Metals	NELAP	7/1/2013
Copper	EPA 6010	Metals	NELAP	7/1/2013
Copper	EPA 6020	Metals	NELAP	7/1/2013
Gross Alpha	EPA 9310	Radiochemistry	NELAP	7/1/2013
Gross Beta	EPA 9310	Radiochemistry	NELAP	7/1/2013
Iron	EPA 6010	Metals	NELAP	7/1/2013
Iron	EPA 6020	Metals	NELAP	7/1/2013
Lead	EPA 6010	Metals	NELAP	7/1/2013
Lead	EPA 6020	Metals	NELAP	7/1/2013
Lithium	EPA 6010	Metals	NELAP	7/1/2013
Magnesium	EPA 6010	Metals	NELAP	7/1/2013
Magnesium	EPA 6020	Metals	NELAP	7/1/2013
Manganese	EPA 6010	Metals	NELAP	7/1/2013
Manganese	EPA 6020	Metals	NELAP	7/1/2013
Mercury	EPA 7471	Metals	NELAP	7/1/2013
Molybdenum	EPA 6010	Metals	NELAP	7/1/2013
Molybdenum	EPA 6020	Metals	NELAP	7/1/2013

Laboratory Scope of Accreditation

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State Laboratory ID: **E87689** **EPA Lab Code:** **MO00054** **(314) 298-8566**

E87689
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Nickel	EPA 6010	Metals	NELAP	7/1/2013
Nickel	EPA 6020	Metals	NELAP	7/1/2013
Potassium	EPA 6010	Metals	NELAP	7/1/2013
Potassium	EPA 6020	Metals	NELAP	7/1/2013
Radium-228	EPA 9320	Radiochemistry	NELAP	7/1/2013
Selenium	EPA 6010	Metals	NELAP	7/1/2013
Selenium	EPA 6020	Metals	NELAP	7/1/2013
Silicon	EPA 6010	Metals	NELAP	7/1/2020
Silver	EPA 6010	Metals	NELAP	7/1/2013
Silver	EPA 6020	Metals	NELAP	7/1/2013
Sodium	EPA 6010	Metals	NELAP	7/1/2013
Sodium	EPA 6020	Metals	NELAP	7/1/2013
Strontium	EPA 6010	Metals	NELAP	7/1/2013
Strontium	EPA 6020	Metals	NELAP	7/1/2013
Thallium	EPA 6010	Metals	NELAP	7/1/2013
Thallium	EPA 6020	Metals	NELAP	7/1/2013
Tin	EPA 6010	Metals	NELAP	7/1/2013
Tin	EPA 6020	Metals	NELAP	7/1/2013
Titanium	EPA 6010	Metals	NELAP	7/1/2013
Titanium	EPA 6020	Metals	NELAP	7/1/2013
Total radium	EPA 9315	Radiochemistry	NELAP	7/1/2013
Uranium (mass)	EPA 6020	Metals	NELAP	7/1/2013
Vanadium	EPA 6010	Metals	NELAP	7/1/2013
Vanadium	EPA 6020	Metals	NELAP	7/1/2013
Zinc	EPA 6010	Metals	NELAP	7/1/2013
Zinc	EPA 6020	Metals	NELAP	7/1/2013

APPENDIX C

Well Condition Assessment Forms

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWA-1

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWA-2

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWA-3

Date: 02/201/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWA-4
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?		X	
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Rusty hinge needs replacement				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWA-5

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-6
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?		X	
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?		X	
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Rusty lid, hard to close, needs replacement				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-7
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-8
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-9
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWC-10

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?		X	
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?		X	
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:	Rust on lid, hard to close, needs replacement			
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWC-11

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?		X	
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?		X	
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Rust on lock tab, needs replacement				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-12
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?		X	
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?		X	
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Rust on lock tab, hard to close				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-13
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-14
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-15
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-16
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:		Ants need to be removed from pad		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWC-17

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWC-18

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-19
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:		Remove ants from pad		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWC-20

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-21
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-22
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		X	
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?			X	

7) Corrective actions as needed, by date: Well located in drainage area between two roads. May need to be relocated.

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWC-23
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:		Remove brush from pad		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: SGWA-24
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: SGWA-25

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:	Overgrown landscape affects visibility, small tree needs cutting			
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-2i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well		X	
D	Is the drainage around the well acceptable? (no		X	
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location			X	
7) Corrective actions as needed, by date:		Well located in drainage area between two roads. May need to be relocated.		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-3S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-5i
Date:02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-9i
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?		X	
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		X	
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		

7) Corrective actions as needed, by date: Overgrown landscape affects visibility, needs proper label

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-10S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?		X	
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Needs proper label				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-11S
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?		X	
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Needs proper label				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-12S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-13S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material inot the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-14i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-14S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-15S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?		X	
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Needs proper label				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-17i
Date: 02/20/2023

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

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: Weeds need to be removed from pad

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-19i

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-19S

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-20i

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-21S
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?		X	
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Mud inside casing- needs to be cleared and sealed				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-25i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-25S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-26S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-27D

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-27S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-28i
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-29S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-30i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-31i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:		Brush needs to be removed from pad		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-32D

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		

7) Corrective actions as needed, by date: Overgrown landscape affects visibility. Wooded area needs to be cleared for better accessibility

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-32S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		

7) Corrective actions as needed, by date: Overgrown landscape affects visibility. Wooded area needs to be cleared for better accessibility

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-33i

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-34S

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-35i
Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?		X	
C	Is the well in a high traffic area and does the well require protection from traffic?	X		
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?		X	
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:		Check screws. Replace label.		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-36i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-36S

Date: 8/16/22

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-37i
Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-38i

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-39S

Date: //

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:		remove weeds, hay from pad		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-40i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-41S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-42i
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-43S
Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-44i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-69i

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-45D

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-46D

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-47D

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-48S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-49S
Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-49D

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-50D

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-51D
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-52

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-53

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-54
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-55

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-56
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-57

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-58

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-59S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Area muddy/overgrown, needs clearing				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-59D

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Area muddy/overgrown, needs clearing				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-60S

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Area muddy/overgrown, needs clearing				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-60D

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?		X	
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?		X	
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date: Area muddy/overgrown, needs clearing				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-61

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-62
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-63
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-64

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-65

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-66

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-66D
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer
Permit Number:
Well ID: PZ-67
Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-67D

Date: 02/20/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant Scherer

Permit Number:

Well ID: PZ-68

Date: 02/21/2023

		Yes	No	N/A
1) Location/Identification				
A	Is the well visible and accessible?	X		
B	Is the well properly identified with correct well ID?	X		
C	Is the well in a high traffic area and does the well require protection from traffic?		X	
D	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
2) Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	X		
B	Is the casing free of degradation or deterioration?	X		
C	Does the casing have a functioning weep hole?	X		
D	Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
E	Is the well locked and is the lock in good condition?	X		
3) Surface Pad				
A	Is the well pad in good condition (not cracked/broken)?	X		
B	Is the well pad sloped away from the protective casing?	X		
C	Is the well pad in complete contact with the ground surface and stable?	X		
D	Is the well pad in complete contact with the protective casing?	X		
E	Is the pad surface clean (not covered with sediment or debris)?	X		
4) Internal Casing				
A	Does the cap prevent entry of foreign material into the well?	X		
B	Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
C	Is the well properly vented for equilibration of air pressure?	X		
D	Is the survey point clearly marked on the inner casing?	X		
E	Is the depth of the well consistent with the original well log?	X		
F	Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction)	X		
5) Sampling: Groundwater Wells Only				
A	Does water recharge adequately when purged?	X		
B	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
C	Does the well require redevelopment (low flow/turbidity)?		X	
6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?		X		
7) Corrective actions as needed, by date:				
Signature and Seal of PE/PG responsible for inspection				

APPENDIX D

Statistical Analyses

GROUNDWATER STATS CONSULTING

August 31, 2023

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Scherer Ash Pond (AP)
Statistical Analysis – February 2023 Sample Event

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 Semi-Annual Groundwater Detection and Assessment Monitoring of groundwater data for Georgia Power Company's Plant Scherer AP. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** SGWA-1, SGWA-2, SGWA-3, SGWA-4, SGWA-5, SGWA-24, and SGWA-25
- **Downgradient wells:** SGWC-6, SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, and SGWC-23

- **Assessment Wells:** PZ-13S, PZ-14S, PZ-17I, PZ-39S, PZ-40I, PZ-41S, PZ-42I, PZ-43S, PZ-44I, and PZ-69I

The assessment wells were first sampled in October 2018 and all data are included on the time series graphs and box plots. These well/constituent pairs are formally evaluated for Appendix IV constituents using confidence intervals when a minimum of 4 samples are available.

Resamples were collected in October 2022 for the following well/constituent pairs due to the August 2022 samples exceeding hold times for mercury and TDS:

- Mercury: SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23, PZ-14S, PZ-39S, PZ-40I, and PZ-42I
- pH: SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23, PZ-14S, PZ-39S, PZ-40I, and PZ-42I
- TDS: SGWC-16 and SGWC-17

Additional resamples were collected in November 2022 for the following well/constituent pairs due to the October 2022 resamples exceeding hold times for TDS:

- pH: SGWC-16 and SGWC-17
- TDS: SGWC-16 and SGWC-17

Per request of WSP Golder, the August 2022 samples that exceeded hold times for mercury and TDS are not included in the Sanitas database. The resamples collected for pH at these wells in October and November 2022 and were retained in the database.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician for Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. This generally gives the most conservative limit in each case.

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).

Based on the previous screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended for all Appendix III constituents.

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. While data were further tested for intrawell eligibility during the screening, interwell methods were recommended for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Statistical Methods:

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Ground Water Protection Standards (GWPS) for each Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with 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 following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. 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. While this was not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting 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.

Statistical Analysis of Appendix III Parameters – February 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. 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 high value for fluoride at upgradient well SGWA-4 was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2023 samples from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several prediction limit exceedances were identified for Appendix III parameters. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances.

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 for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site, which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results including a list of statistically significant trends follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- Boron: SGWC-10, SGWC-11, SGWC-18, and SGWC-22
- Calcium: SGWA-2, SGWA-4, SGWA-24 (all upgradient), SGWC-17, SGWC-19, SGWC-21, and SGWC-22
- Chloride: SGWC-9, SGWC-12, SGWC-13, SGWC-15, SGWC-16, SGWC-18, SGWC-21, and SGWC-23
- pH: SGWC-18
- Sulfate: SGWC-12, SGWC-13, SGWC-16, SGWC-17, SGWC-19, SGWC-21, and SGWC-22
- TDS: SGWA-4 (upgradient), SGWC-13, SGWC-17, SGWC-19, and SGWC-22

Decreasing:

- Boron: SGWC-21
- Calcium: SGWC-23
- Chloride: SGWA-3 (upgradient) and SGWC-7
- Fluoride: SGWA-4 (upgradient)
- Sulfate: SGWC-7 and SGWC-23
- TDS: SGWC-23

Statistical Analysis of Appendix IV Parameters – February 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. Downgradient well/constituent pairs containing 100% non-detects do not require analysis.

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. A high value for fluoride at upgradient well SGWA-4 was flagged in order

to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. Additionally, it was noted that the August 2022 reported measurement for chromium at downgradient well SGWC-8 was substantially high relative to remaining measurements within this well and, as discussed during the previous analysis, this value was flagged as an outlier. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2023 for Appendix IV constituents (Figure H). 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 I).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in downgradient and delineation wells with 4 or more samples (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background 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 confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

For some well/constituent pairs, the parametric lower confidence limit resulted in a negative number. Therefore, non-parametric confidence intervals were constructed for these well/constituent pairs and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest measurement in the data set for a given well rather than a negative number. Note that in the case of combined radium 226 + 228 at assessment well PZ-44I, the lowest recorded observation is a negative value of -0.0607 pCi/L.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Cobalt: SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20

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 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). 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 trends, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter and statistically significant trends were identified for the following well/constituent pairs:

Increasing

- None

Decreasing

- Cobalt: SGWA-1, SGWA-25 (both upgradient), SGWC-11, and SGWC-20

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Scherer AP. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 5/3/2023 10:32 AM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Antimony (mg/L)
SGWC-11, SGWC-12, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-6, SGWC-8, SGWC-9, PZ-41S, PZ-43S, PZ-39S, PZ-14S, PZ-13S, PZ-44I, PZ-42I, PZ-69I

Arsenic (mg/L)
PZ-41S, PZ-43S, PZ-14S, PZ-13S, PZ-44I, PZ-17I, PZ-40I

Beryllium (mg/L)
SGWC-11, SGWC-12, SGWC-13, SGWC-16, SGWC-21, SGWC-23, SGWC-7, SGWC-9, PZ-41S, PZ-43S, PZ-39S, PZ-14S, PZ-13S, PZ-44I, PZ-17I, PZ-40I, PZ-42I, PZ-69I

Cadmium (mg/L)
SGWC-10, SGWC-12, SGWC-13, SGWC-16, SGWC-17, SGWC-22, SGWC-23, SGWC-7, SGWC-9, PZ-41S, PZ-43S, PZ-39S, PZ-14S, PZ-13S, PZ-44I, PZ-17I, PZ-40I, PZ-42I, PZ-69I

Chromium (mg/L)
SGWC-10, SGWC-11, SGWC-6, SGWC-9, PZ-40I, PZ-69I

Cobalt (mg/L)
PZ-17I

Lead (mg/L)
SGWC-11, SGWC-9, PZ-41S, PZ-43S, PZ-39S, PZ-14S, PZ-13S, PZ-44I, PZ-17I, PZ-40I, PZ-69I

Mercury (mg/L)
SGWC-19, PZ-41S, PZ-43S, PZ-39S, PZ-14S, PZ-17I, PZ-40I, PZ-42I, PZ-69I

Molybdenum (mg/L)
SGWC-10, SGWC-11, SGWC-13, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, PZ-41S, PZ-43S, PZ-14S, PZ-13S, PZ-44I, PZ-17I

Selenium (mg/L)
SGWC-10, SGWC-21, SGWC-22, SGWC-8, SGWC-9, PZ-43S, PZ-14S, PZ-13S, PZ-69I

Thallium (mg/L)
SGWC-16, SGWC-19, SGWC-21, PZ-41S, PZ-43S, PZ-39S, PZ-14S, PZ-13S, PZ-44I, PZ-17I, PZ-40I, PZ-42I, PZ-69I

Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-10	0.18	n/a	2/22/2023	0.28	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-11	0.18	n/a	2/22/2023	0.75	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-13	0.18	n/a	2/23/2023	0.69	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-14	0.18	n/a	2/23/2023	1.7	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-15	0.18	n/a	2/23/2023	2.2	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-16	0.18	n/a	2/23/2023	0.87	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-17	0.18	n/a	2/22/2023	0.34	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-18	0.18	n/a	2/22/2023	8.1	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-19	0.18	n/a	2/22/2023	2	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-20	0.18	n/a	2/22/2023	1.7	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-21	0.18	n/a	2/23/2023	1.3	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-22	0.18	n/a	2/23/2023	0.63	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-23	0.18	n/a	2/23/2023	0.81	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-9	0.18	n/a	2/22/2023	1.6	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	SGWC-12	20	n/a	2/23/2023	21	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-14	20	n/a	2/23/2023	37	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-17	20	n/a	2/22/2023	56	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-18	20	n/a	2/22/2023	41	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-19	20	n/a	2/22/2023	38	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-21	20	n/a	2/23/2023	34	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-22	20	n/a	2/23/2023	34	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-23	20	n/a	2/23/2023	22	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-8	20	n/a	2/22/2023	41	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-9	20	n/a	2/22/2023	36	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	SGWC-10	3.132	n/a	2/22/2023	9	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3.132	n/a	2/22/2023	9.9	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3.132	n/a	2/23/2023	9.6	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3.132	n/a	2/23/2023	11	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3.132	n/a	2/23/2023	12	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3.132	n/a	2/23/2023	11	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3.132	n/a	2/23/2023	9.8	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3.132	n/a	2/22/2023	8.1	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3.132	n/a	2/22/2023	13	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3.132	n/a	2/22/2023	10	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3.132	n/a	2/22/2023	8.8	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3.132	n/a	2/23/2023	8.9	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3.132	n/a	2/23/2023	11	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3.132	n/a	2/23/2023	12	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3.132	n/a	2/22/2023	3.6	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3.132	n/a	2/22/2023	18	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3.132	n/a	2/22/2023	18	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-8	0.16	n/a	2/22/2023	0.52	Yes	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-15	7.01	5.09	2/23/2023	4.59	Yes	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-18	7.01	5.09	2/22/2023	5	Yes	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-20	7.01	5.09	2/22/2023	4.38	Yes	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-10	3.75	n/a	2/22/2023	18	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-12	3.75	n/a	2/23/2023	57	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-13	3.75	n/a	2/23/2023	96	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-14	3.75	n/a	2/23/2023	210	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-15	3.75	n/a	2/23/2023	190	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-16	3.75	n/a	2/23/2023	55	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-17	3.75	n/a	2/22/2023	230	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-18	3.75	n/a	2/22/2023	790	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-19	3.75	n/a	2/22/2023	260	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-20	3.75	n/a	2/22/2023	230	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate, total (mg/L)	SGWC-21	3.75	n/a	2/23/2023	120	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-22	3.75	n/a	2/23/2023	120	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-23	3.75	n/a	2/23/2023	64	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-7	3.75	n/a	2/22/2023	6.7	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-8	3.75	n/a	2/22/2023	52	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-9	3.75	n/a	2/22/2023	200	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-12	200	n/a	2/23/2023	220	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-13	200	n/a	2/23/2023	230	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	2/23/2023	390	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	2/23/2023	300	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	2/22/2023	470	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	2/22/2023	1200	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	2/22/2023	440	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	2/22/2023	350	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	2/23/2023	350	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	2/23/2023	260	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	2/23/2023	210	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	2/22/2023	350	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	2/22/2023	430	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	**SGWC-10**	**0.18**	**n/a**	**2/22/2023**	**0.28**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-11**	**0.18**	**n/a**	**2/22/2023**	**0.75**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	SGWC-12	0.18	n/a	2/23/2023	0.079J	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**SGWC-13**	**0.18**	**n/a**	**2/23/2023**	**0.69**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-14**	**0.18**	**n/a**	**2/23/2023**	**1.7**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-15**	**0.18**	**n/a**	**2/23/2023**	**2.2**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-16**	**0.18**	**n/a**	**2/23/2023**	**0.87**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-17**	**0.18**	**n/a**	**2/22/2023**	**0.34**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-18**	**0.18**	**n/a**	**2/22/2023**	**8.1**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-19**	**0.18**	**n/a**	**2/22/2023**	**2**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-20**	**0.18**	**n/a**	**2/22/2023**	**1.7**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-21**	**0.18**	**n/a**	**2/23/2023**	**1.3**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-22**	**0.18**	**n/a**	**2/23/2023**	**0.63**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-23**	**0.18**	**n/a**	**2/23/2023**	**0.81**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	SGWC-6	0.18	n/a	2/22/2023	0.08ND	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-7	0.18	n/a	2/22/2023	0.064J	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-8	0.18	n/a	2/22/2023	0.11	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**SGWC-9**	**0.18**	**n/a**	**2/22/2023**	**1.6**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	SGWC-10	20	n/a	2/22/2023	2.2	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-11	20	n/a	2/22/2023	1.7	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-12**	**20**	**n/a**	**2/23/2023**	**21**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-13	20	n/a	2/23/2023	20	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-14**	**20**	**n/a**	**2/23/2023**	**37**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-15	20	n/a	2/23/2023	14	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-16	20	n/a	2/23/2023	1.3	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-17**	**20**	**n/a**	**2/22/2023**	**56**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-18**	**20**	**n/a**	**2/22/2023**	**41**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-19**	**20**	**n/a**	**2/22/2023**	**38**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-20	20	n/a	2/22/2023	14	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-21**	**20**	**n/a**	**2/23/2023**	**34**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-22**	**20**	**n/a**	**2/23/2023**	**34**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-23**	**20**	**n/a**	**2/23/2023**	**22**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-6	20	n/a	2/22/2023	10	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-7	20	n/a	2/22/2023	15	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-8**	**20**	**n/a**	**2/22/2023**	**41**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-9**	**20**	**n/a**	**2/22/2023**	**36**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**SGWC-10**	**3.132**	**n/a**	**2/22/2023**	**9**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-11**	**3.132**	**n/a**	**2/22/2023**	**9.9**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-12**	**3.132**	**n/a**	**2/23/2023**	**9.6**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-13**	**3.132**	**n/a**	**2/23/2023**	**11**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-14**	**3.132**	**n/a**	**2/23/2023**	**12**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-15**	**3.132**	**n/a**	**2/23/2023**	**11**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-16**	**3.132**	**n/a**	**2/23/2023**	**9.8**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-17**	**3.132**	**n/a**	**2/22/2023**	**8.1**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-18**	**3.132**	**n/a**	**2/22/2023**	**13**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-19**	**3.132**	**n/a**	**2/22/2023**	**10**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-20**	**3.132**	**n/a**	**2/22/2023**	**8.8**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-21**	**3.132**	**n/a**	**2/23/2023**	**8.9**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-22**	**3.132**	**n/a**	**2/23/2023**	**11**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-23**	**3.132**	**n/a**	**2/23/2023**	**12**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	SGWC-6	3.132	n/a	2/22/2023	2.3	No	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	**SGWC-7**	**3.132**	**n/a**	**2/22/2023**	**3.6**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-8**	**3.132**	**n/a**	**2/22/2023**	**18**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-9**	**3.132**	**n/a**	**2/22/2023**	**18**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Fluoride, total (mg/L)	SGWC-10	0.16	n/a	2/22/2023	0.045J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-11	0.16	n/a	2/22/2023	0.063J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-12	0.16	n/a	2/23/2023	0.089J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-13	0.16	n/a	2/23/2023	0.077J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-14	0.16	n/a	2/23/2023	0.068J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-15	0.16	n/a	2/23/2023	0.11	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-16	0.16	n/a	2/23/2023	0.045J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-17	0.16	n/a	2/22/2023	0.06J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-18	0.16	n/a	2/22/2023	0.061J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-19	0.16	n/a	2/22/2023	0.046J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-20	0.16	n/a	2/22/2023	0.13	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-21	0.16	n/a	2/23/2023	0.087J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-22	0.16	n/a	2/23/2023	0.075J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-23	0.16	n/a	2/23/2023	0.089J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-6	0.16	n/a	2/22/2023	0.11	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-7	0.16	n/a	2/22/2023	0.16	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**SGWC-8**	**0.16**	**n/a**	**2/22/2023**	**0.52**	**Yes**	**167**	**n/a**	**n/a**	**55.09**	**n/a**	**n/a**	**0.00007067**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	SGWC-9	0.16	n/a	2/22/2023	0.076J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-10	7.01	5.09	2/22/2023	5.23	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-11	7.01	5.09	2/22/2023	5.1	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-12	7.01	5.09	2/23/2023	6.04	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-13	7.01	5.09	2/23/2023	5.94	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-14	7.01	5.09	2/23/2023	5.72	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	**SGWC-15**	**7.01**	**5.09**	**2/23/2023**	**4.59**	**Yes**	**161**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001508**	**NP Inter (normality) 1 of 2**
pH (S.U.)	SGWC-16	7.01	5.09	2/23/2023	5.13	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-17	7.01	5.09	2/22/2023	6.23	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	**SGWC-18**	**7.01**	**5.09**	**2/22/2023**	**5**	**Yes**	**161**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001508**	**NP Inter (normality) 1 of 2**
pH (S.U.)	SGWC-19	7.01	5.09	2/22/2023	5.53	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	**SGWC-20**	**7.01**	**5.09**	**2/22/2023**	**4.38**	**Yes**	**161**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001508**	**NP Inter (normality) 1 of 2**
pH (S.U.)	SGWC-21	7.01	5.09	2/23/2023	6.19	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-22	7.01	5.09	2/23/2023	5.72	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-23	7.01	5.09	2/23/2023	6	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-6	7.01	5.09	2/22/2023	6.28	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-7	7.01	5.09	2/22/2023	6.51	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-8	7.01	5.09	2/22/2023	6.51	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-9	7.01	5.09	2/22/2023	6.14	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	**SGWC-10**	**3.75**	**n/a**	**2/22/2023**	**18**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	SGWC-11	3.75	n/a	2/22/2023	3.1	No	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	**SGWC-12**	**3.75**	**n/a**	**2/23/2023**	**57**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-13**	**3.75**	**n/a**	**2/23/2023**	**96**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-14**	**3.75**	**n/a**	**2/23/2023**	**210**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-15**	**3.75**	**n/a**	**2/23/2023**	**190**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-16**	**3.75**	**n/a**	**2/23/2023**	**55**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-17**	**3.75**	**n/a**	**2/22/2023**	**230**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-18**	**3.75**	**n/a**	**2/22/2023**	**790**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-19**	**3.75**	**n/a**	**2/22/2023**	**260**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-20**	**3.75**	**n/a**	**2/22/2023**	**230**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-21**	**3.75**	**n/a**	**2/23/2023**	**120**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-22**	**3.75**	**n/a**	**2/23/2023**	**120**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-23**	**3.75**	**n/a**	**2/23/2023**	**64**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	SGWC-6	3.75	n/a	2/22/2023	1.4	No	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	**SGWC-7**	**3.75**	**n/a**	**2/22/2023**	**6.7**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-8**	**3.75**	**n/a**	**2/22/2023**	**52**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-9**	**3.75**	**n/a**	**2/22/2023**	**200**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	SGWC-10	200	n/a	2/22/2023	56	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-11	200	n/a	2/22/2023	41	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**SGWC-12**	**200**	**n/a**	**2/23/2023**	**220**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-13**	**200**	**n/a**	**2/23/2023**	**230**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-14**	**200**	**n/a**	**2/23/2023**	**390**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-15**	**200**	**n/a**	**2/23/2023**	**300**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	SGWC-16	200	n/a	2/23/2023	130	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**SGWC-17**	**200**	**n/a**	**2/22/2023**	**470**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-18**	**200**	**n/a**	**2/22/2023**	**1200**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-19**	**200**	**n/a**	**2/22/2023**	**440**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-20**	**200**	**n/a**	**2/22/2023**	**350**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-21**	**200**	**n/a**	**2/23/2023**	**350**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-22**	**200**	**n/a**	**2/23/2023**	**260**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-23**	**200**	**n/a**	**2/23/2023**	**210**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	SGWC-6	200	n/a	2/22/2023	120	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-7	200	n/a	2/22/2023	170	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**SGWC-8**	**200**	**n/a**	**2/22/2023**	**350**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-9**	**200**	**n/a**	**2/22/2023**	**430**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**

Appendix III Trend Tests - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWC-10	0.01553	118	81	Yes	20	10	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-11	0.0543	169	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-18	0.5628	149	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-21	-0.04312	-83	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-22	0.02696	97	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-2 (bg)	0.2587	95	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-24 (bg)	0.6427	128	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-4 (bg)	0.5922	109	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-17	3.724	156	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-19	1.616	105	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-21	1.178	87	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-22	1.388	130	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-23	-1.358	-110	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-3 (bg)	-0.1516	-87	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-12	0.1513	96	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-13	1.031	142	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-15	0.2171	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-16	0.2762	104	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-18	1.834	135	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-21	0.7168	119	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-23	0.3135	95	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-7	-0.4515	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-9	1.416	148	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-4 (bg)	-0.004385	-104	-98	Yes	23	39.13	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-18	0.02781	129	98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-12	4.824	135	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-13	2.796	85	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-16	5.958	184	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-17	13.68	162	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-19	8.596	103	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-21	8.641	126	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-22	5.304	137	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-23	-10.41	-148	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-7	-1.737	-108	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-4 (bg)	6.444	90	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-13	9.65	95	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	21.42	151	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	16.19	88	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	9.645	107	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	-11.85	-87	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWA-1 (bg)	0	-5	-81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-2 (bg)	0	-5	-81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-24 (bg)	0	7	81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-25 (bg)	0	35	81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-3 (bg)	0	-2	-81	No	20	85	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-4 (bg)	0	17	81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-5 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	**SGWC-10**	**0.01553**	**118**	**81**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**SGWC-11**	**0.0543**	**169**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	SGWC-13	-0.0008532	-7	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-14	0.02814	62	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-15	-0.02781	-36	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-16	0.01426	81	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-17	0	3	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**SGWC-18**	**0.5628**	**149**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	SGWC-19	0	11	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-20	-0.0758	-79	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**SGWC-21**	**-0.04312**	**-83**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**SGWC-22**	**0.02696**	**97**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	SGWC-23	-0.02487	-74	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-9	-0.02149	-44	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-1 (bg)	-0.05984	-53	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWA-2 (bg)**	**0.2587**	**95**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWA-24 (bg)**	**0.6427**	**128**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWA-25 (bg)	-0.2216	-67	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-3 (bg)	0.1365	54	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWA-4 (bg)**	**0.5922**	**109**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWA-5 (bg)	0.05116	80	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-12	0	16	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-14	0.4222	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWC-17**	**3.724**	**156**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWC-18	0.8149	14	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWC-19**	**1.616**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWC-21**	**1.178**	**87**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWC-22**	**1.388**	**130**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWC-23**	**-1.358**	**-110**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWC-8	0.5073	48	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-9	-1.833	-75	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-1 (bg)	0	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-2 (bg)	0	-5	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-24 (bg)	0.1252	66	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-25 (bg)	0	-9	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWA-3 (bg)**	**-0.1516**	**-87**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWA-4 (bg)	0.009116	26	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-5 (bg)	0.01895	25	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-10	0.03144	18	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-11	0.2118	58	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-12**	**0.1513**	**96**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**SGWC-13**	**1.031**	**142**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-14	0	39	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-15**	**0.2171**	**88**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**SGWC-16**	**0.2762**	**104**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-17	-0.02186	-17	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-18**	**1.834**	**135**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-19	0.1942	48	81	No	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	SGWC-20	-0.1153	-56	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-21**	**0.7168**	**119**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-22	0.06685	62	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-23**	**0.3135**	**95**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**SGWC-7**	**-0.4515**	**-120**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-8	0	4	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-9**	**1.416**	**148**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	SGWA-1 (bg)	0	-80	-105	No	24	83.33	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-2 (bg)	-0.004415	-65	-105	No	24	41.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-24 (bg)	-0.008118	-89	-105	No	24	41.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-25 (bg)	-0.002712	-62	-105	No	24	41.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-3 (bg)	0	-28	-105	No	24	62.5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**SGWA-4 (bg)**	**-0.004385**	**-104**	**-98**	**Yes**	**23**	**39.13**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	SGWA-5 (bg)	0	-61	-105	No	24	75	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-8	-0.006342	-21	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-1 (bg)	-0.03259	-91	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-2 (bg)	0.008725	38	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-24 (bg)	0.005979	39	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-25 (bg)	-0.01734	-92	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-3 (bg)	0.01993	64	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-4 (bg)	-0.01746	-93	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-5 (bg)	-0.003621	-12	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-15	-0.01198	-53	-92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	**SGWC-18**	**0.02781**	**129**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	SGWC-20	0.00188	19	98	No	23	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-1 (bg)	0	18	81	No	20	25	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-2 (bg)	0	44	81	No	20	60	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-24 (bg)	0	28	81	No	20	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-25 (bg)	0	43	81	No	20	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-3 (bg)	-0.1288	-70	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-4 (bg)	-0.1069	-69	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-5 (bg)	0	46	81	No	20	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-10	0	1	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-12**	**4.824**	**135**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-13**	**2.796**	**85**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-14	0	21	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-15	0	-1	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-16**	**5.958**	**184**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-17**	**13.68**	**162**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-18	70.65	59	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-19**	**8.596**	**103**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-20	-4.112	-64	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-21**	**8.641**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-22**	**5.304**	**137**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-23**	**-10.41**	**-148**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-7**	**-1.737**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-8	1.629	75	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-9	-14.4	-65	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-1 (bg)	-0.762	-6	-81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-2 (bg)	0.6419	30	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-24 (bg)	2.031	41	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-25 (bg)	-2.489	-41	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-3 (bg)	2.515	34	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWA-4 (bg)**	**6.444**	**90**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWA-5 (bg)	-0.9463	-12	-81	No	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	SGWC-12	3.511	66	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-13**	**9.65**	**95**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	7.165	77	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	0.5601	20	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-17**	**21.42**	**151**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	122.8	63	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-19**	**16.19**	**88**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	0	-8	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	9.473	53	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-22**	**9.645**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-23**	**-11.85**	**-87**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	-2.185	-21	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	-15.01	-65	-81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0021	n/a	n/a	n/a	n/a	126	n/a	n/a	94.44	n/a	n/a	0.00156	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0015	n/a	n/a	n/a	n/a	161	n/a	n/a	86.34	n/a	n/a	0.0002591	NP Inter(NDs)
Barium (mg/L)	n/a	0.078	n/a	n/a	n/a	n/a	161	n/a	n/a	0	n/a	n/a	0.0002591	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	161	n/a	n/a	93.79	n/a	n/a	0.0002591	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	154	n/a	n/a	98.7	n/a	n/a	0.0003711	NP Inter(NDs)
Chromium (mg/L)	n/a	0.023	n/a	n/a	n/a	n/a	168	n/a	n/a	28.57	n/a	n/a	0.000181	NP Inter(normality)
Cobalt (mg/L)	n/a	0.02	n/a	n/a	n/a	n/a	161	n/a	n/a	64.6	n/a	n/a	0.0002591	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.54	n/a	n/a	n/a	n/a	161	n/a	n/a	0	n/a	n/a	0.0002591	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.16	n/a	n/a	n/a	n/a	167	n/a	n/a	55.09	n/a	n/a	0.0001905	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	161	n/a	n/a	93.17	n/a	n/a	0.0002591	NP Inter(NDs)
Lithium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	161	n/a	n/a	85.71	n/a	n/a	0.0002591	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	163	n/a	n/a	92.02	n/a	n/a	0.0002339	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	154	n/a	n/a	92.21	n/a	n/a	0.0003711	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	161	n/a	n/a	91.93	n/a	n/a	0.0002591	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	161	n/a	n/a	92.55	n/a	n/a	0.0002591	NP Inter(NDs)

SCHERER ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0021	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01
Barium, Total (mg/L)	2		0.078	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.023	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.54	5
Fluoride, Total (mg/L)	4		0.6	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.005	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level

**GWPS = Groundwater Protection Standard*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**SGWC-10**	**0.03043**	**0.02186**	**0.02**	**Yes**	**23**	**0.02614**	**0.008197**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-11**	**0.02746**	**0.02097**	**0.02**	**Yes**	**23**	**0.02422**	**0.006208**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-15**	**0.2731**	**0.2549**	**0.02**	**Yes**	**23**	**0.264**	**0.01733**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-18**	**0.1487**	**0.1088**	**0.02**	**Yes**	**23**	**0.1288**	**0.03811**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-20**	**0.2089**	**0.152**	**0.02**	**Yes**	**23**	**0.1805**	**0.05443**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	SGWC-10	0.002	0.0014	0.006	No	17	0.001965	0.0001455	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-13	0.002	0.0004	0.006	No	17	0.001906	0.0003881	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-18	0.002	0.0012	0.006	No	16	0.00195	0.0002	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-19	0.0021	0.002	0.006	No	17	0.002006	0.00002425	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-20	0.002	0.0019	0.006	No	16	0.001994	0.000025	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-21	0.002	0.0019	0.006	No	17	0.001994	0.00002425	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-22	0.0022	0.002	0.006	No	17	0.002012	0.00004851	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-23	0.002	0.00098	0.006	No	17	0.00194	0.0002474	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-7	0.002	0.0004	0.006	No	17	0.001906	0.0003881	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-39S	0.0019	0.00028	0.01	No	4	0.001045	0.0006634	50	None	No	0.0625	NP (selected)
Arsenic (mg/L)	PZ-42I	0.001	0.00049	0.01	No	4	0.0008725	0.000255	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	23	0.0009491	0.0001392	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.00103	0.001	0.01	No	23	0.001005	0.00009448	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-12	0.001	0.00091	0.01	No	23	0.000903	0.0002341	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	23	0.0009757	0.0001563	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	23	0.0009761	0.0001703	78.26	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.00142	0.0009042	0.01	No	23	0.001293	0.0004664	17.39	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	23	0.0009313	0.0001852	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001	0.00075	0.01	No	23	0.0009207	0.0001719	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.003094	0.001841	0.01	No	23	0.002467	0.001198	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	23	0.0009678	0.0001077	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.0008289	0.0004932	0.01	No	23	0.0009313	0.0004224	39.13	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	23	0.0009896	0.00005004	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.00089	0.01	No	23	0.0008665	0.0002532	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	23	0.0009739	0.00009059	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	23	0.0009348	0.0001742	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.0009	0.01	No	23	0.0008991	0.0001882	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.001	0.01	No	23	0.000903	0.0001991	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00079	0.01	No	23	0.0008817	0.0002101	60.87	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-17I	0.06553	0.05197	2	No	4	0.05875	0.002986	0	None	No	0.01	Param.
Barium (mg/L)	PZ-39S	0.06094	0.01106	2	No	4	0.036	0.01098	0	None	No	0.01	Param.
Barium (mg/L)	PZ-40I	0.1083	0.004234	2	No	4	0.05625	0.02291	0	None	No	0.01	Param.
Barium (mg/L)	PZ-41S	0.059	0.025	2	No	4	0.034	0.01667	0	None	No	0.0625	NP (normality)
Barium (mg/L)	PZ-42I	0.1	0.052	2	No	4	0.065	0.02341	0	None	No	0.0625	NP (normality)
Barium (mg/L)	PZ-43S	0.1385	0.03697	2	No	4	0.08775	0.02237	0	None	No	0.01	Param.
Barium (mg/L)	PZ-44I	0.014	0.0078	2	No	4	0.009425	0.003051	0	None	No	0.0625	NP (normality)
Barium (mg/L)	SGWC-10	0.03245	0.02796	2	No	23	0.0302	0.004285	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.04296	0.03872	2	No	23	0.04084	0.004048	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.057	0.036	2	No	23	0.04676	0.01028	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-13	0.03477	0.02841	2	No	23	0.03159	0.006077	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.05779	0.04958	2	No	23	0.05369	0.00785	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.03722	0.03074	2	No	23	0.03398	0.006195	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.0278	0.02123	2	No	23	0.02451	0.006276	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-17	0.02355	0.01956	2	No	23	0.02156	0.003814	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.02256	0.01501	2	No	23	0.01927	0.007602	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	SGWC-19	0.03944	0.0318	2	No	23	0.03562	0.007302	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03257	0.02432	2	No	23	0.02844	0.007882	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.1056	0.09344	2	No	23	0.1	0.01233	0	None	ln(x)	0.01	Param.
Barium (mg/L)	SGWC-22	0.0894	0.07965	2	No	23	0.08453	0.009314	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.08164	0.06737	2	No	23	0.0745	0.01364	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-6	0.1129	0.07299	2	No	23	0.09297	0.0382	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.2902	0.247	2	No	23	0.2686	0.04127	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.1894	0.1667	2	No	23	0.1785	0.02227	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	SGWC-9	0.06506	0.05354	2	No	23	0.0593	0.01101	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	23	0.002403	0.0004671	95.65	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	23	0.002314	0.0006171	91.3	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00046	0.00037	0.004	No	23	0.0005178	0.0002966	13.04	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-17	0.0025	0.00028	0.004	No	23	0.002403	0.0004629	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-18	0.0025	0.00035	0.004	No	23	0.001468	0.001103	52.17	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	23	0.001996	0.0009776	78.26	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0007974	0.000648	0.004	No	23	0.0007227	0.0001428	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-22	0.0025	0.00033	0.004	No	23	0.002406	0.0004525	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	23	0.0024	0.0004796	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	23	0.002304	0.0006499	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-11	0.0025	0.00022	0.005	No	22	0.002396	0.0004861	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	22	0.002305	0.0006353	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.00027	0.005	No	22	0.001102	0.001082	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	SGWC-18	0.0025	0.00035	0.005	No	22	0.001884	0.001031	72.73	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	22	0.002403	0.0004562	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	22	0.002282	0.000705	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	22	0.002404	0.0004499	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	22	0.002396	0.0004861	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	22	0.0024	0.0004669	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-17I	0.00545	0.00275	0.1	No	4	0.0041	0.0005944	0	None	No	0.01	Param.
Chromium (mg/L)	PZ-39S	0.03	0.0027	0.1	No	4	0.01868	0.01281	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	PZ-41S	0.007952	0.001698	0.1	No	4	0.004825	0.00159	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	PZ-42I	0.003	0.002	0.1	No	4	0.00225	0.0005	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	PZ-43S	0.002	0.002	0.1	No	4	0.002	4.7e-11	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	PZ-44I	0.0046	0.002	0.1	No	4	0.00265	0.0013	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	23	0.002013	0.00006255	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	23	0.001987	0.00006255	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-14	0.0026	0.0019	0.1	No	23	0.002083	0.00105	69.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03461	0.03221	0.1	No	23	0.03341	0.002288	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01173	0.00999	0.1	No	23	0.01086	0.001667	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-17	0.007387	0.004739	0.1	No	23	0.006063	0.002531	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.01006	0.007644	0.1	No	23	0.009083	0.002722	0	None	ln(x)	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01557	0.01419	0.1	No	23	0.01488	0.001323	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	23	0.001961	0.000235	91.3	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.002	0.1	No	23	0.001917	0.0002229	73.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0022	0.0015	0.1	No	23	0.001878	0.0004033	65.22	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0017	0.001317	0.1	No	23	0.001796	0.0003496	39.13	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	SGWC-7	0.0026	0.002	0.1	No	23	0.002026	0.0001251	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0016	0.1	No	22	0.001886	0.0004291	59.09	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-13S	0.006738	0.005095	0.02	No	6	0.005917	0.0005981	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-14S	0.0004952	0.000173	0.02	No	5	0.000746	0.0009853	20	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-39S	0.0025	0.00028	0.02	No	6	0.001432	0.001173	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	PZ-40I	0.0076	0.0014	0.02	No	4	0.0036	0.002741	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	PZ-41S	0.005514	0.000317	0.02	No	6	0.002338	0.003376	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-42I	0.0064	0.00061	0.02	No	4	0.002677	0.002604	25	None	No	0.0625	NP (selected)
Cobalt (mg/L)	PZ-43S	0.0086	0.00025	0.02	No	6	0.002887	0.002957	50	None	No	0.0155	NP (selected)
Cobalt (mg/L)	PZ-44I	0.002764	0.001236	0.02	No	4	0.002	0.0003367	0	None	No	0.01	Param.
Cobalt (mg/L)	**SGWC-10**	**0.03043**	**0.02186**	**0.02**	**Yes**	**23**	**0.02614**	**0.008197**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-11**	**0.02746**	**0.02097**	**0.02**	**Yes**	**23**	**0.02422**	**0.006208**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	SGWC-12	0.003696	0.002232	0.02	No	23	0.002964	0.0014	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.005973	0.002727	0.02	No	23	0.004909	0.003711	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01088	0.006802	0.02	No	23	0.008841	0.0039	0	None	No	0.01	Param.
Cobalt (mg/L)	**SGWC-15**	**0.2731**	**0.2549**	**0.02**	**Yes**	**23**	**0.264**	**0.01733**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	SGWC-16	0.004498	0.003644	0.02	No	23	0.004071	0.0008159	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.00078	0.00041	0.02	No	23	0.0008489	0.0007859	17.39	None	No	0.01	NP (normality)
Cobalt (mg/L)	**SGWC-18**	**0.1487**	**0.1088**	**0.02**	**Yes**	**23**	**0.1288**	**0.03811**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	SGWC-19	0.0025	0.00045	0.02	No	23	0.001505	0.001082	52.17	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**SGWC-20**	**0.2089**	**0.152**	**0.02**	**Yes**	**23**	**0.1805**	**0.05443**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	SGWC-21	0.0025	0.00016	0.02	No	23	0.001683	0.001144	65.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003198	0.001704	0.02	No	23	0.002451	0.001428	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	23	0.002397	0.0004942	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.0025	0.0012	0.02	No	23	0.001967	0.001158	39.13	None	No	0.01	NP (normality)
Cobalt (mg/L)	SGWC-7	0.009732	0.004573	0.02	No	23	0.007152	0.004932	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.0025	0.00075	0.02	No	23	0.001887	0.0009849	65.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01121	0.005095	0.02	No	23	0.008155	0.00585	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-14S	0.432	0.0627	5	No	4	0.2677	0.1836	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-17I	0.882	0.125	5	No	4	0.393	0.3351	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-39S	0.565	0.0623	5	No	4	0.2726	0.2261	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-40I	1.59	0.366	5	No	4	0.914	0.5172	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-41S	0.698	0.168	5	No	5	0.3534	0.2225	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-42I	0.651	0.188	5	No	4	0.3785	0.2016	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-43S	1.64	0.241	5	No	4	0.7238	0.6284	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-44I	0.551	-0.0607	5	No	4	0.2064	0.26	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.452	0.102	5	No	23	0.2979	0.3421	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.472	0.1523	5	No	23	0.3122	0.3057	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4409	0.1786	5	No	23	0.3097	0.2508	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4498	0.1987	5	No	23	0.3242	0.2401	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.3312	0.06715	5	No	23	0.1992	0.2524	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.4551	0.2493	5	No	23	0.3522	0.1968	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.3451	0.116	5	No	23	0.2305	0.219	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.3978	0.1775	5	No	23	0.2877	0.2107	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.435	0.17	5	No	23	0.3654	0.3384	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.396	0.11	5	No	23	0.2861	0.3334	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.5647	0.278	5	No	23	0.4213	0.2741	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.565	0.218	5	No	23	0.4492	0.3498	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.459	0.1494	5	No	23	0.357	0.3985	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6145	0.3624	5	No	23	0.4884	0.241	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.3648	0.1352	5	No	23	0.25	0.2195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.5164	0.2759	5	No	23	0.3961	0.2299	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.5	1.966	5	No	23	2.233	0.5102	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.3662	0.1455	5	No	23	0.2558	0.211	0	None	No	0.01	Param.
Fluoride, total (mg/L)	PZ-17I	0.06532	0.02147	4	No	4	0.08075	0.08004	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	PZ-39S	0.1049	0.02309	4	No	4	0.073	0.02547	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	PZ-40I	0.05399	0.02901	4	No	4	0.07075	0.03407	50	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	PZ-41S	0.07588	0.01912	4	No	4	0.07375	0.03198	50	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	PZ-42I	0.1167	0.002259	4	No	4	0.0595	0.02521	0	None	No	0.01	Param.
Fluoride, total (mg/L)	PZ-43S	0.05166	0.02394	4	No	4	0.07675	0.08237	25	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	PZ-44I	0.1	0.031	4	No	4	0.06625	0.03899	50	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	SGWC-10	0.1	0.047	4	No	24	0.08633	0.02764	79.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	24	0.09033	0.02099	79.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.09457	0.06335	4	No	24	0.104	0.05334	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.1	0.053	4	No	24	0.08404	0.03044	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.04	4	No	24	0.07913	0.03106	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	24	0.1375	0.05232	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.058	4	No	24	0.08358	0.02911	70.83	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.2	0.051	4	No	24	0.1149	0.07228	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-18	0.1	0.091	4	No	24	0.09118	0.03024	58.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.1	0.057	4	No	24	0.09319	0.03034	79.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2455	0.1781	4	No	24	0.2154	0.07178	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09401	0.07035	4	No	24	0.1201	0.05687	29.17	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.075	4	No	24	0.086	0.02613	70.83	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-23	0.2	0.046	4	No	24	0.1135	0.07082	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-6	0.1404	0.1037	4	No	24	0.1239	0.03823	12.5	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-7	0.2293	0.1803	4	No	24	0.2048	0.04808	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.4687	0.3781	4	No	24	0.4234	0.08873	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.09652	0.05662	4	No	24	0.139	0.102	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	PZ-42I	0.001	0.00019	0.015	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.015	No	23	0.000887	0.0002984	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-12	0.001	0.0002	0.015	No	23	0.0009652	0.0001668	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.015	No	23	0.0009735	0.0001272	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.015	No	23	0.0009174	0.0002319	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.015	No	23	0.0009665	0.0001606	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.015	No	23	0.0009622	0.0001814	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-17	0.001	0.00017	0.015	No	23	0.0009639	0.0001731	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-18	0.001	0.00071	0.015	No	23	0.0009565	0.0001574	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-19	0.001	0.00033	0.015	No	23	0.0009709	0.0001397	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00025	0.015	No	23	0.0005974	0.0003676	43.48	None	No	0.01	NP (normality)
Lead (mg/L)	SGWC-21	0.001	0.00041	0.015	No	23	0.0007948	0.0003569	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00019	0.015	No	23	0.0008196	0.0003501	78.26	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.015	No	23	0.0009604	0.0001897	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.015	No	23	0.0009652	0.0001668	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.015	No	23	0.0009191	0.0002463	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00062	0.015	No	23	0.0009526	0.0001647	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14S	0.002362	0.0008382	0.04	No	5	0.00296	0.001903	40	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	PZ-17I	0.005	0.0016	0.04	No	4	0.003325	0.001935	50	None	No	0.0625	NP (normality)
Lithium (mg/L)	PZ-39S	0.022	0.0027	0.04	No	4	0.01095	0.008288	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	PZ-40I	0.015	0.01	0.04	No	4	0.0115	0.00238	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	PZ-41S	0.005	0.00099	0.04	No	4	0.003472	0.001928	50	None	No	0.0625	NP (selected)
Lithium (mg/L)	PZ-42I	0.007808	0.0004915	0.04	No	4	0.00415	0.001611	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-43S	0.005978	0.0002222	0.04	No	4	0.0031	0.001268	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-44I	0.04066	0.002994	0.04	No	7	0.01943	0.02248	14.29	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	SGWC-10	0.005	0.0011	0.04	No	23	0.00483	0.0008132	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.04	No	23	0.003987	0.001365	60.87	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0012	0.04	No	23	0.004665	0.001109	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.04	No	23	0.004678	0.001066	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0015	0.04	No	23	0.004678	0.001068	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.0034	0.04	No	23	0.004061	0.001015	47.83	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.04	No	23	0.004683	0.001053	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.04	No	23	0.004843	0.0007507	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004633	0.003856	0.04	No	23	0.004548	0.0007329	21.74	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.04	No	23	0.00453	0.001393	78.26	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004619	0.003663	0.04	No	22	0.004141	0.000891	4.545	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0038	0.04	No	23	0.004383	0.001288	78.26	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.04	No	23	0.004338	0.001356	78.26	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.04	No	23	0.004161	0.000975	43.48	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-6	0.005	0.0023	0.04	No	23	0.004722	0.0009342	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-7	0.005372	0.004364	0.04	No	22	0.004868	0.0009393	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.0021	0.04	No	23	0.003909	0.001548	65.22	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-9	0.005	0.0014	0.04	No	23	0.004843	0.0007507	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-44I	0.0002	0.000084	0.002	No	4	0.000171	0.000058	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	23	0.000197	0.0000146	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	23	0.0001957	0.00002085	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	23	0.0001953	0.00002231	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	23	0.0001961	0.00001877	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	23	0.0001873	0.00003374	82.61	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00012	0.002	No	23	0.0001616	0.00004414	47.83	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	23	0.0001946	0.00002586	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00017	0.002	No	23	0.0001878	0.00002907	82.61	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.000177	0.0001184	0.002	No	23	0.0001807	0.00004437	34.78	Kaplan-Meier	x^2	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.00013	0.002	No	23	0.0001863	0.00003732	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	23	0.0001957	0.00002085	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	23	0.0001956	0.00002106	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	23	0.00019	0.00004099	82.61	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	23	0.0001961	0.00001877	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	23	0.0001961	0.00001877	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	23	0.0001946	0.00002586	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	23	0.0001957	0.00002085	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.1	No	22	0.01374	0.004075	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.1	No	22	0.01381	0.003868	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-23	0.015	0.00062	0.1	No	22	0.01435	0.003066	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.1	No	22	0.01371	0.004165	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.00343	0.0012	0.1	No	22	0.00477	0.005725	22.73	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.1	No	22	0.01371	0.004189	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00099	0.1	No	22	0.00928	0.007042	59.09	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-17I	0.005	0.00047	0.05	No	4	0.003867	0.002265	75	Kaplan-Meier	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-39S	0.002534	0.0008658	0.05	No	4	0.0017	0.0004243	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	PZ-40I	0.005	0.00059	0.05	No	4	0.003897	0.002205	75	Kaplan-Meier	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-41S	0.00843	0.00352	0.05	No	4	0.005975	0.001081	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-42I	0.005	0.00026	0.05	No	4	0.003815	0.00237	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-44I	0.005	0.00046	0.05	No	4	0.003865	0.00227	75	Kaplan-Meier	No	0.0625	NP (NDs)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No	23	0.004803	0.0009467	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No	23	0.004796	0.0009779	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No	23	0.004606	0.001306	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No	23	0.00463	0.001225	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.005	0.0014	0.05	No	23	0.004222	0.002473	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-16	0.005	0.0012	0.05	No	23	0.003495	0.001937	60.87	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No	23	0.004398	0.00159	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.009377	0.003281	0.05	No	23	0.007789	0.00801	8.696	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00099	0.05	No	23	0.004264	0.001642	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.005	0.00396	0.05	No	23	0.004059	0.001766	69.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00075	0.05	No	23	0.004198	0.00179	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No	23	0.004401	0.001581	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No	23	0.004797	0.0009717	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No	23	0.000917	0.0002423	86.96	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No	23	0.0009265	0.0002435	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No	23	0.0009378	0.0002067	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No	23	0.0009661	0.0001626	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00035	0.002	No	23	0.0009043	0.0002683	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.0001	0.002	No	23	0.0006023	0.0004326	52.17	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-17	0.001	0.00024	0.002	No	23	0.000967	0.0001585	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-18	0.00066	0.00013	0.002	No	23	0.0003659	0.0003325	17.39	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00028	0.00016	0.002	No	23	0.000327	0.0003199	17.39	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-22	0.001	0.00038	0.002	No	23	0.000973	0.0001293	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-23	0.001	0.00016	0.002	No	23	0.0009635	0.0001752	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No	23	0.000877	0.000279	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00042	0.002	No	23	0.0009409	0.0001982	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No	23	0.0008883	0.0002709	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.0004	0.002	No	23	0.0009422	0.0001926	91.3	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/3/2023, 10:51 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**SGWA-1 (bg)**	**-0.002606**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**SGWA-25 (bg)**	**-0.001984**	**-187**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**SGWC-11**	**-0.002933**	**-190**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**SGWC-20**	**-0.02272**	**-162**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

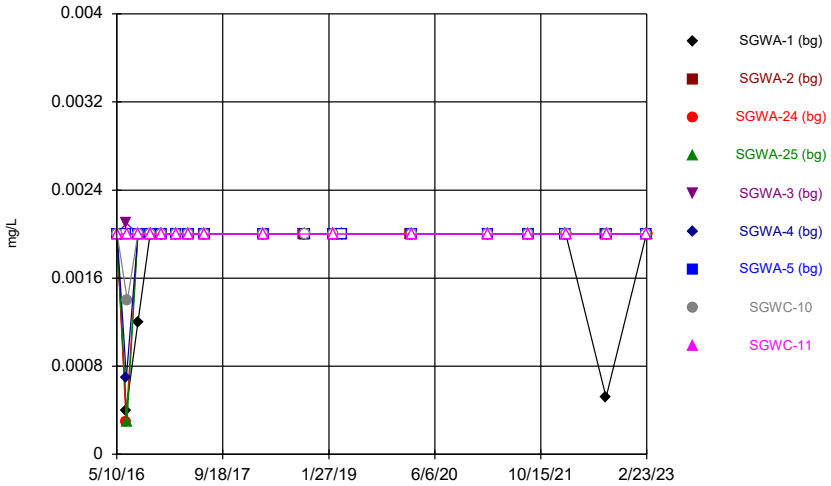
Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/3/2023, 10:51 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**SGWA-1 (bg)**	**-0.002606**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	SGWA-2 (bg)	0	5	98	No	23	91.3	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWA-24 (bg)	0	-15	-98	No	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	**SGWA-25 (bg)**	**-0.001984**	**-187**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	SGWA-3 (bg)	0	18	98	No	23	95.65	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWA-4 (bg)	0	9	98	No	23	91.3	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWA-5 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWC-10	0	-1	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**SGWC-11**	**-0.002933**	**-190**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	SGWC-15	-0.002451	-52	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWC-18	-0.006116	-68	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**SGWC-20**	**-0.02272**	**-162**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

FIGURE A.

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

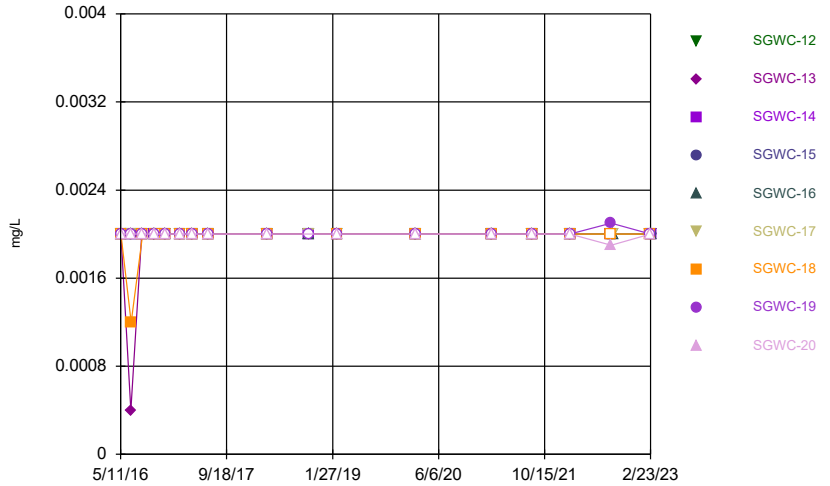
Time Series



Constituent: Antimony Analysis Run 5/8/2023 2:09 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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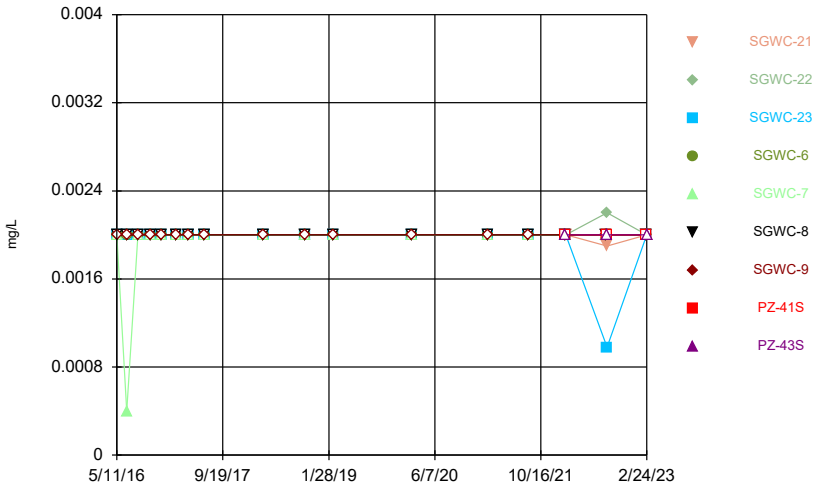
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

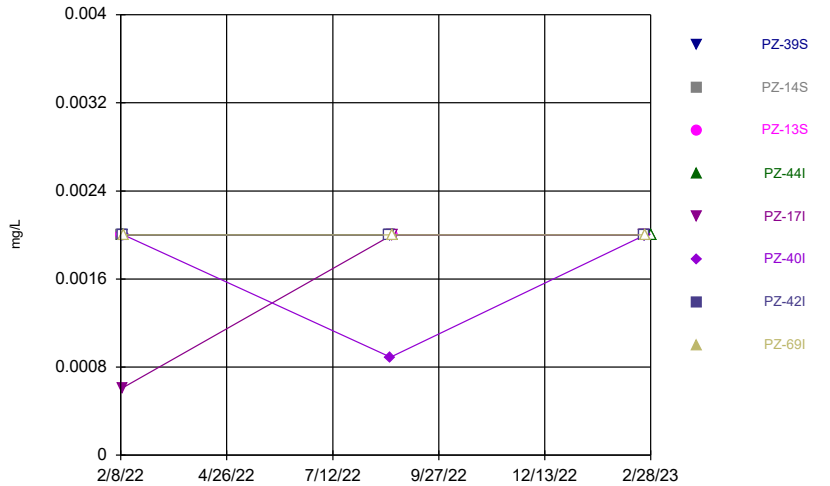
Time Series



Constituent: Antimony Analysis Run 5/8/2023 2:09 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

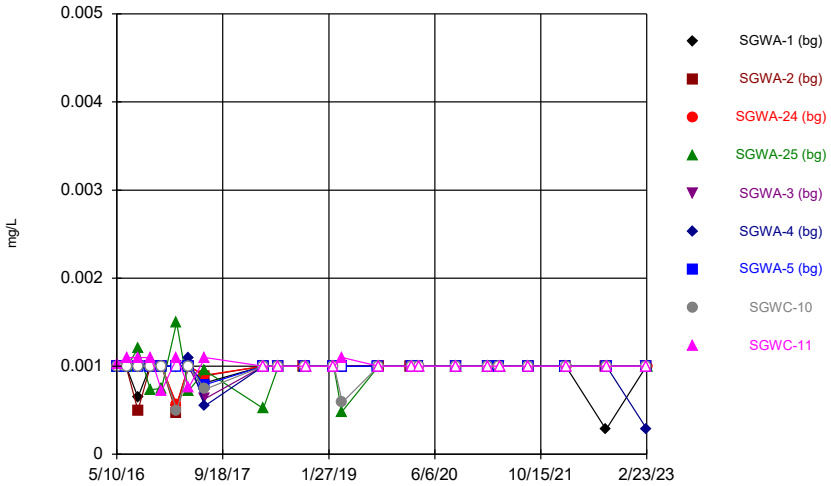
Time Series



Constituent: Antimony Analysis Run 5/8/2023 2:09 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

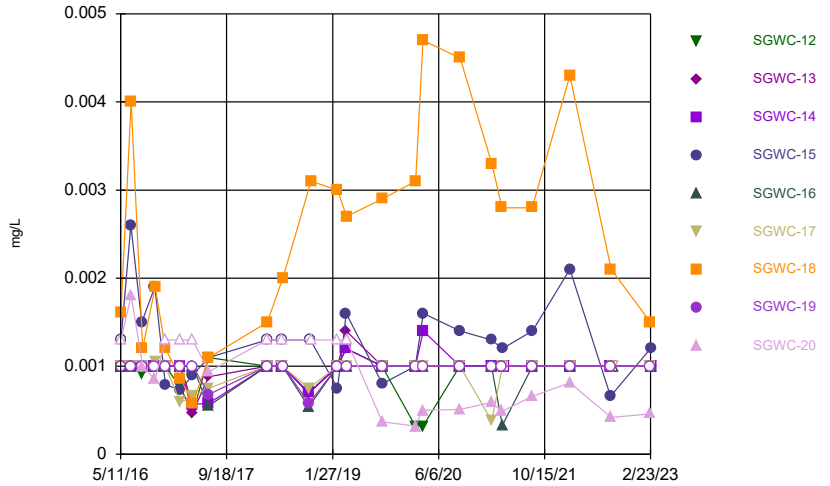
Time Series



Constituent: Arsenic Analysis Run 5/8/2023 2:09 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

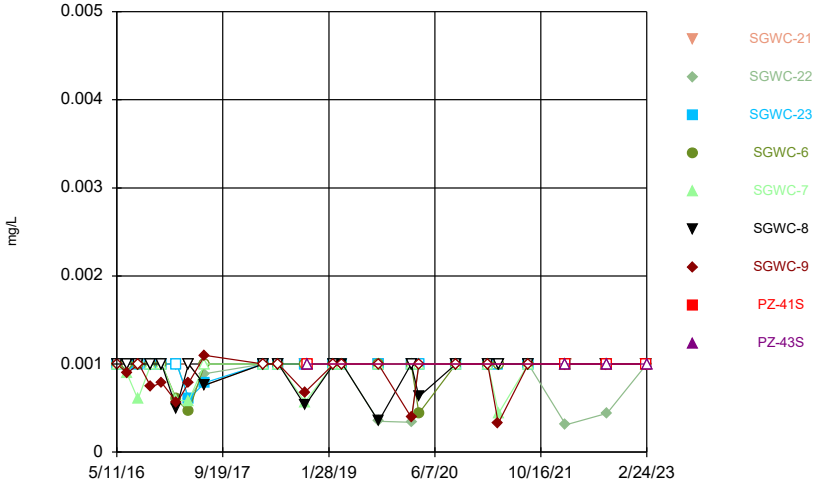
Time Series



Constituent: Arsenic Analysis Run 5/8/2023 2:09 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

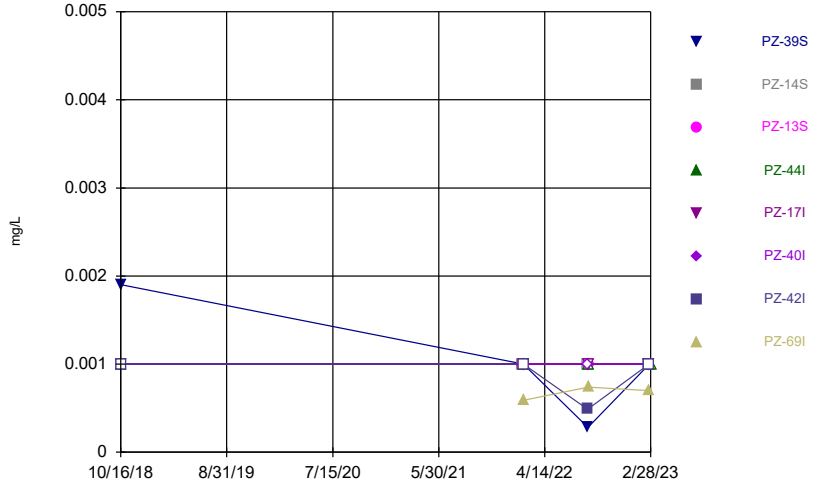
Time Series



Constituent: Arsenic Analysis Run 5/8/2023 2:09 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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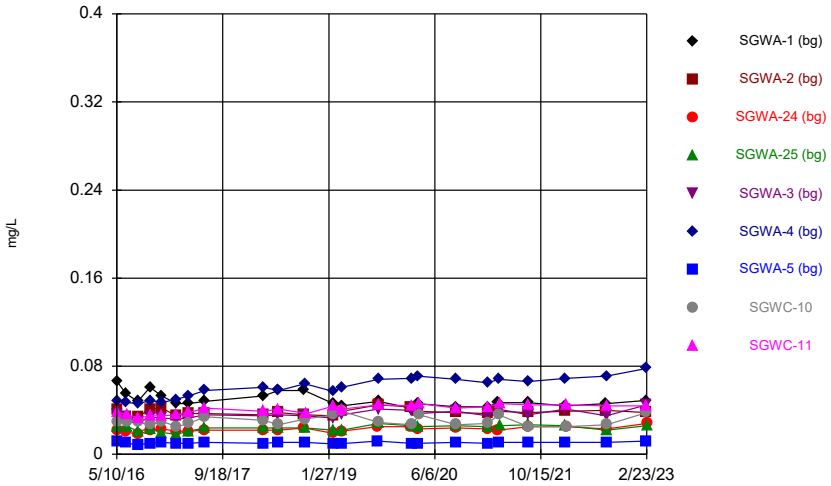
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

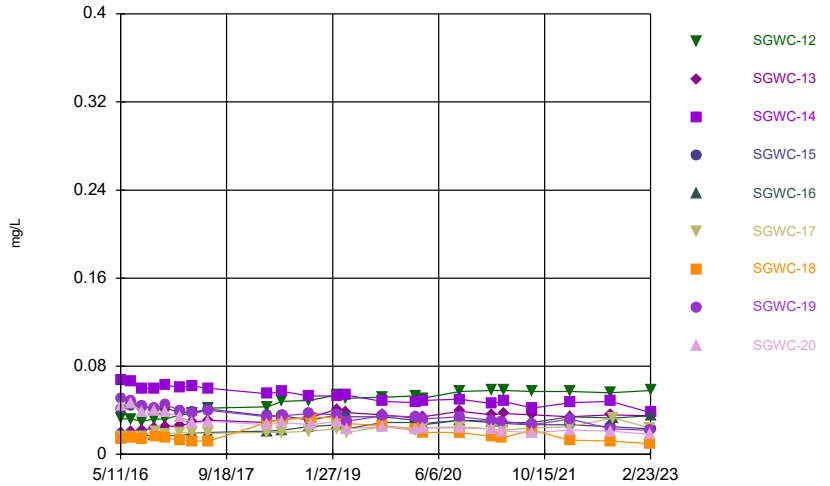


Constituent: Barium Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series



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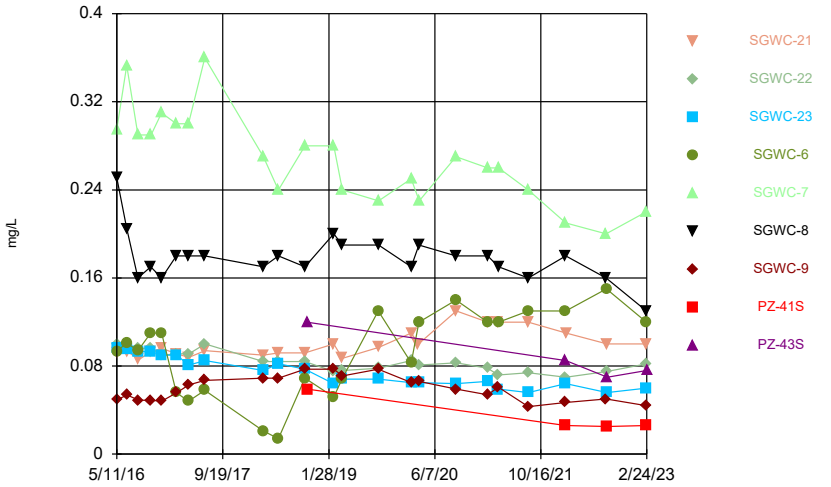
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

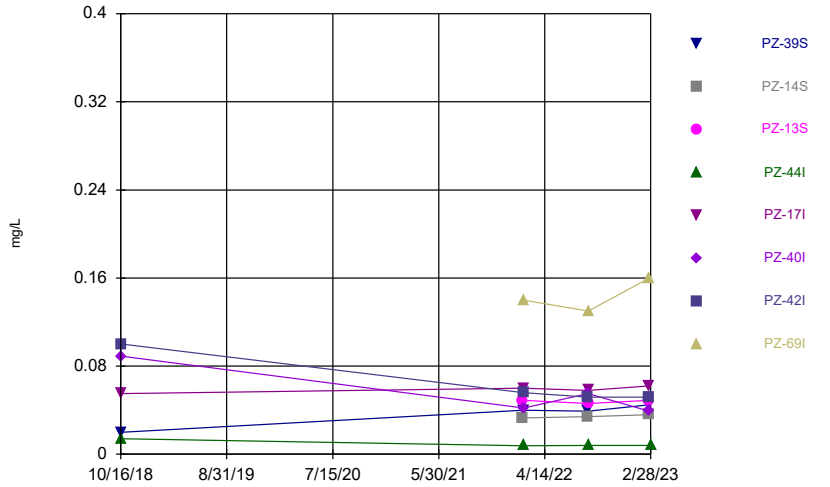


Constituent: Barium Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

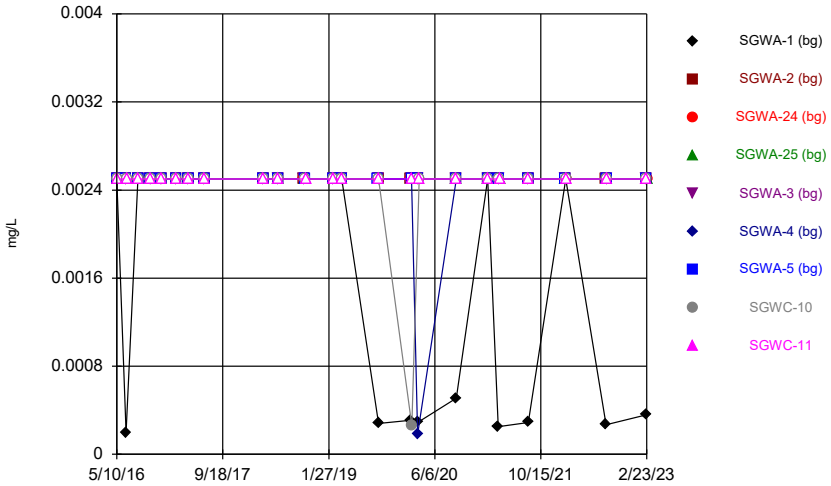


Constituent: Barium Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

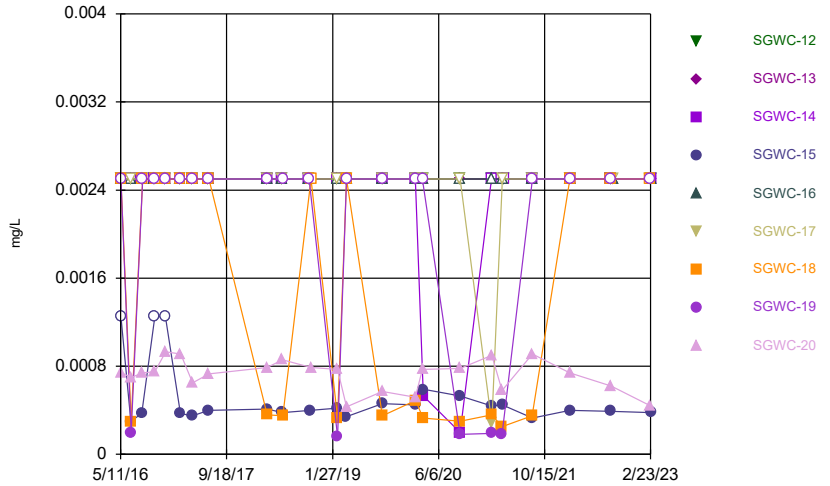
Time Series



Constituent: Beryllium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

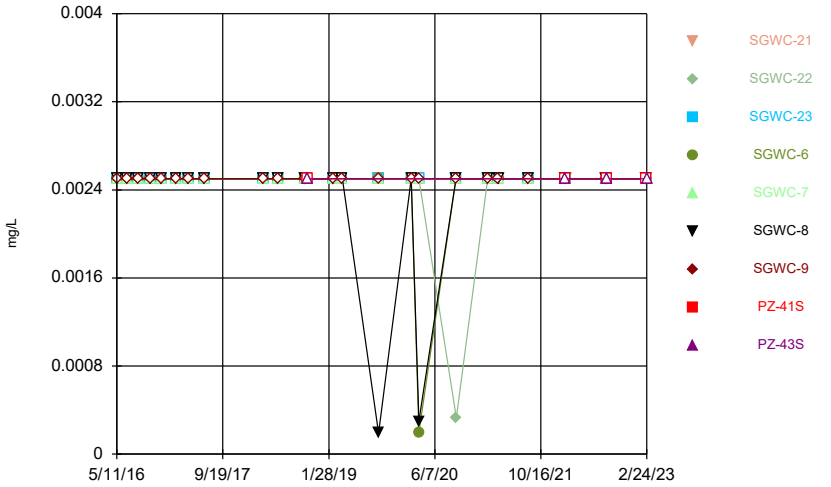
Time Series



Constituent: Beryllium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

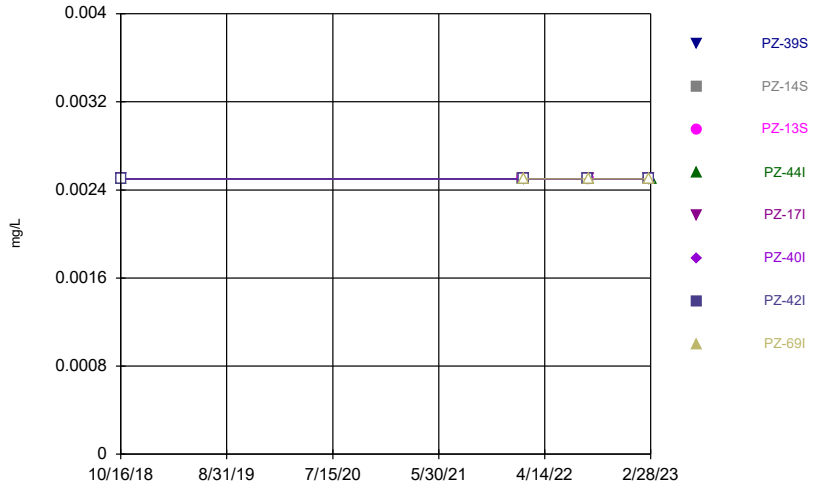
Time Series



Constituent: Beryllium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

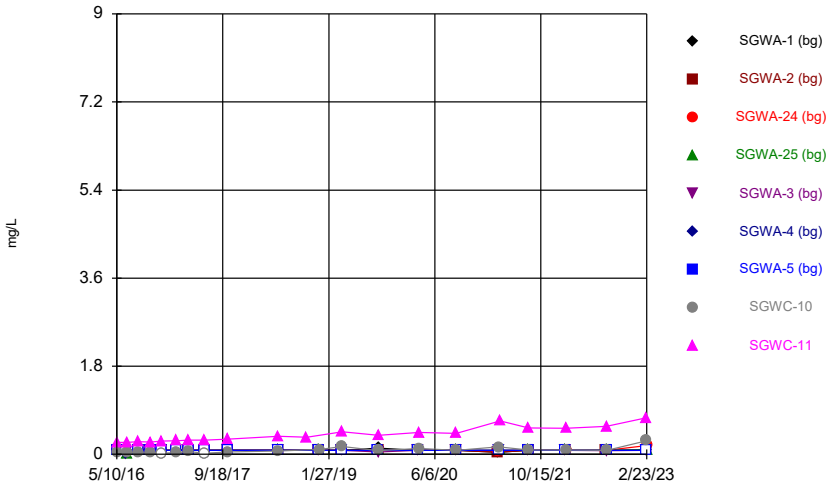
Time Series



Constituent: Beryllium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

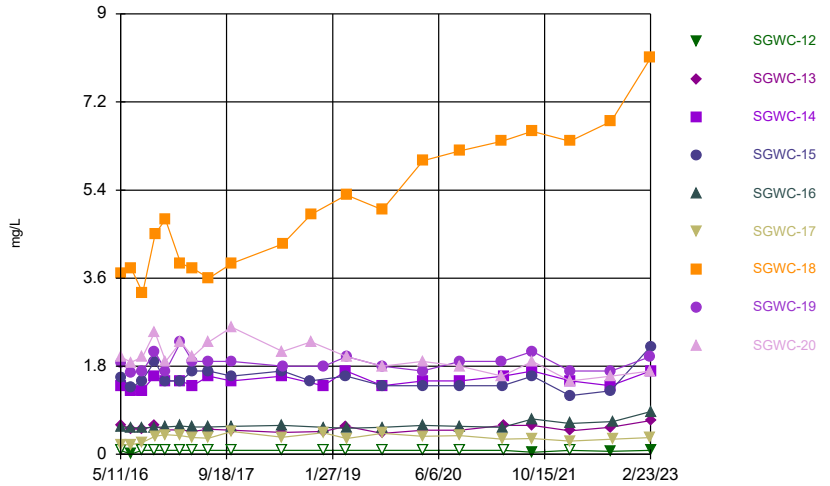
Time Series



Constituent: Boron, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

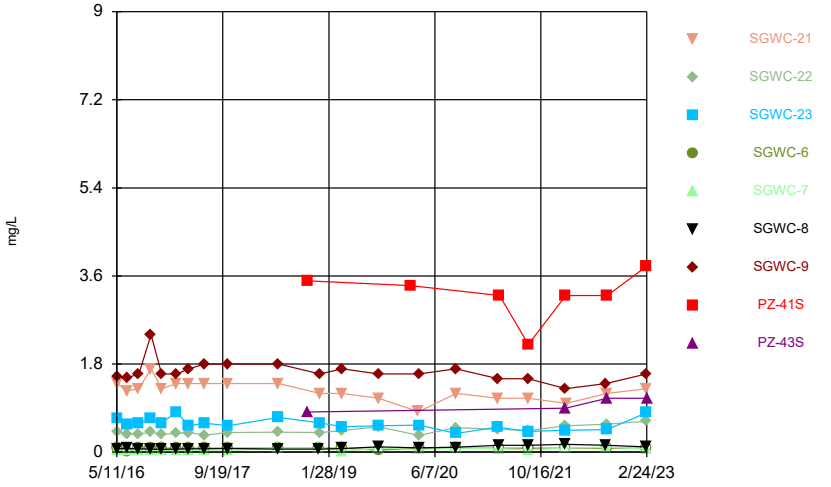
Time Series



Constituent: Boron, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

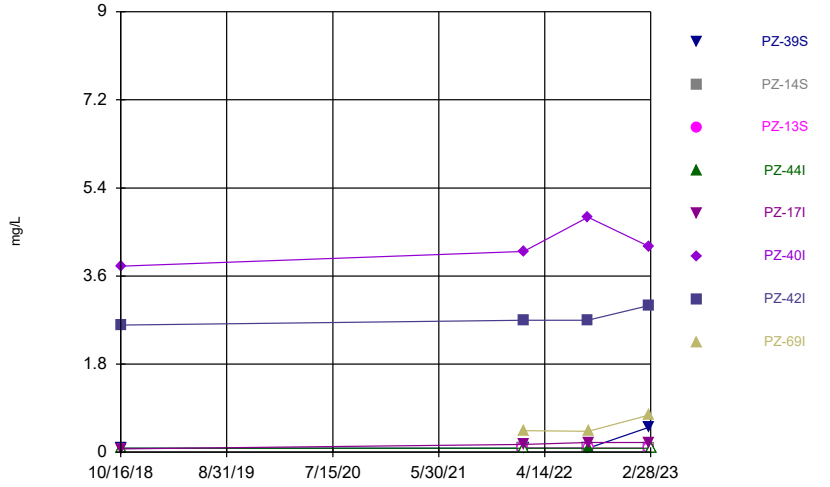
Time Series



Constituent: Boron, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

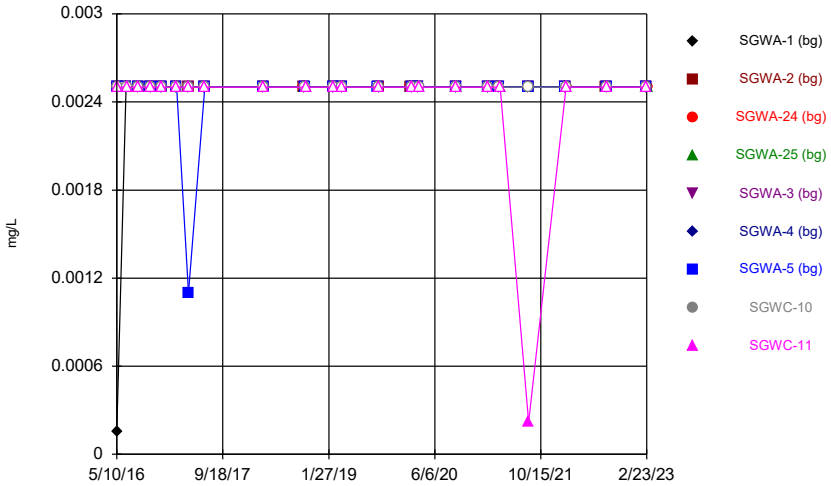
Time Series



Constituent: Boron, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

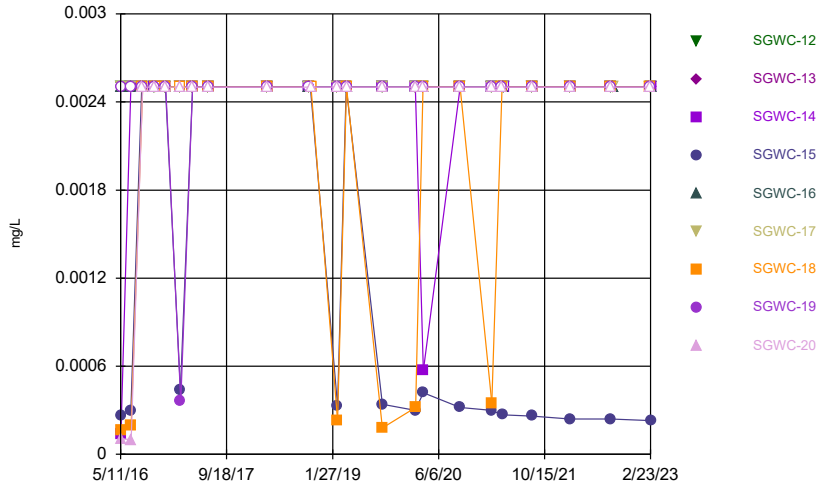
Time Series



Constituent: Cadmium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

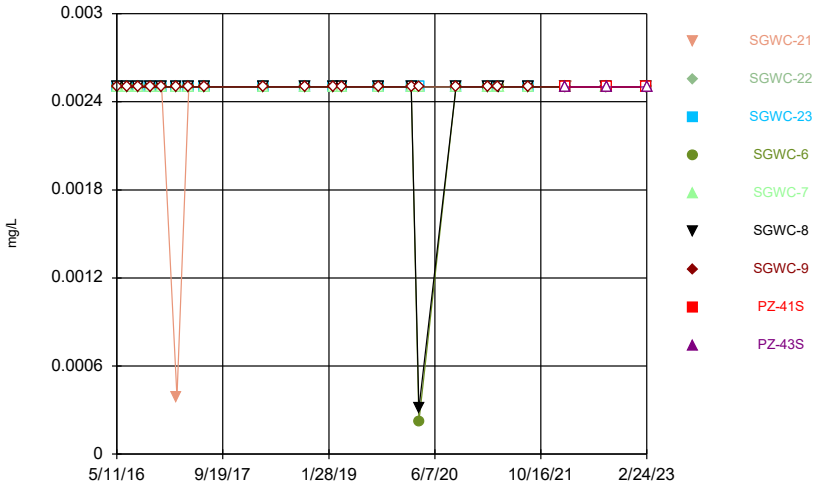
Time Series



Constituent: Cadmium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

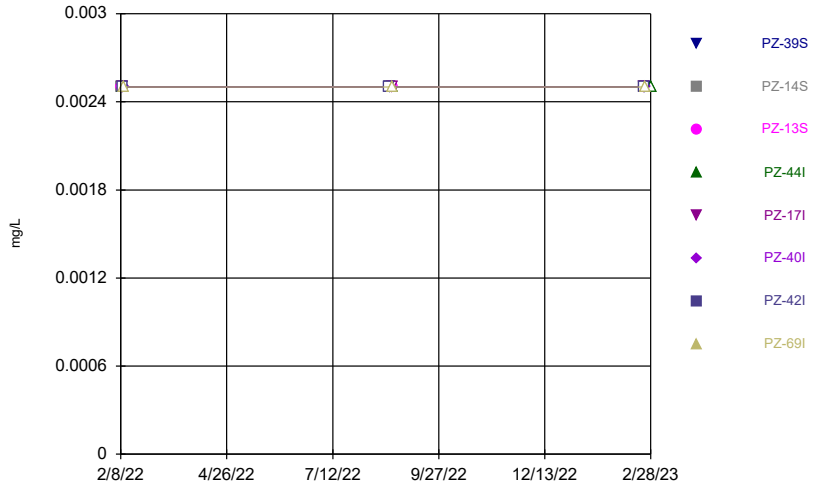
Time Series



Constituent: Cadmium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

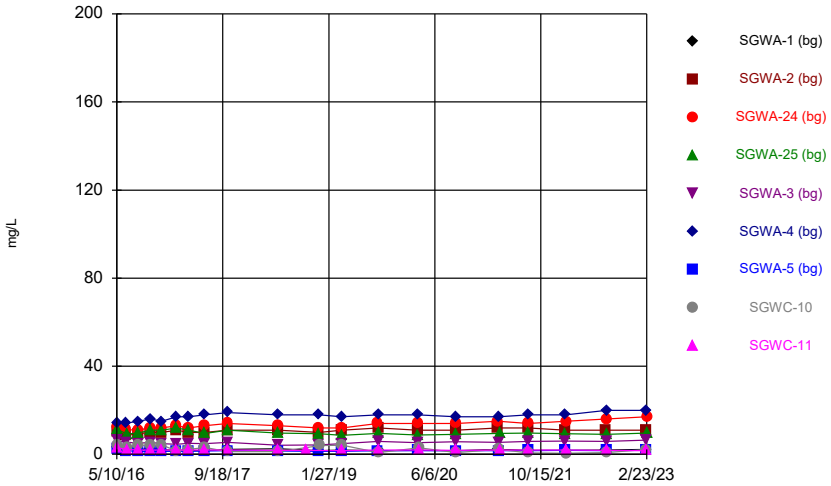
Time Series



Constituent: Cadmium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

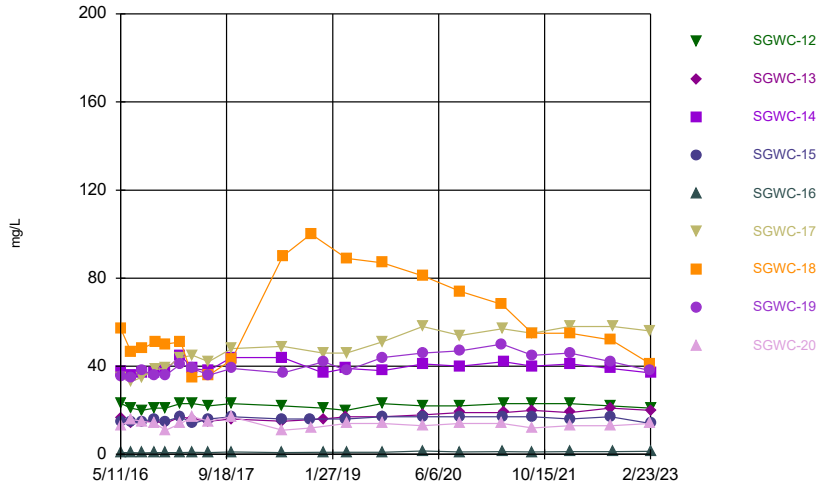


Constituent: Calcium, total Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

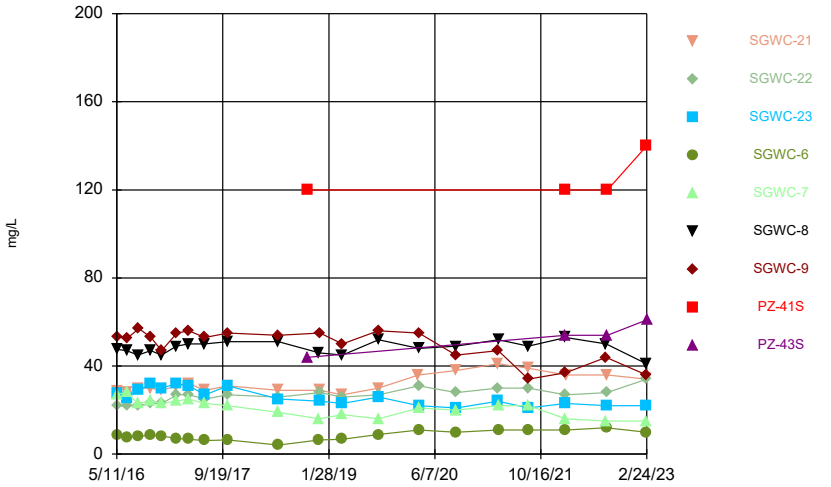


Constituent: Calcium, total Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

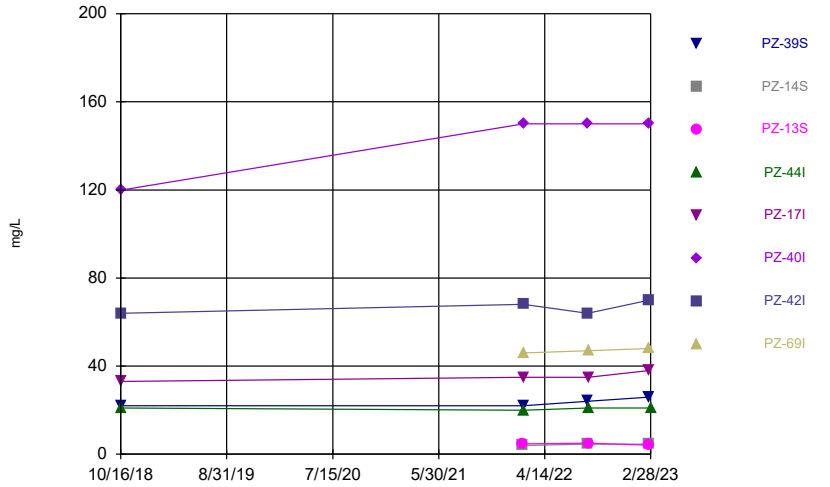


Constituent: Calcium, total Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

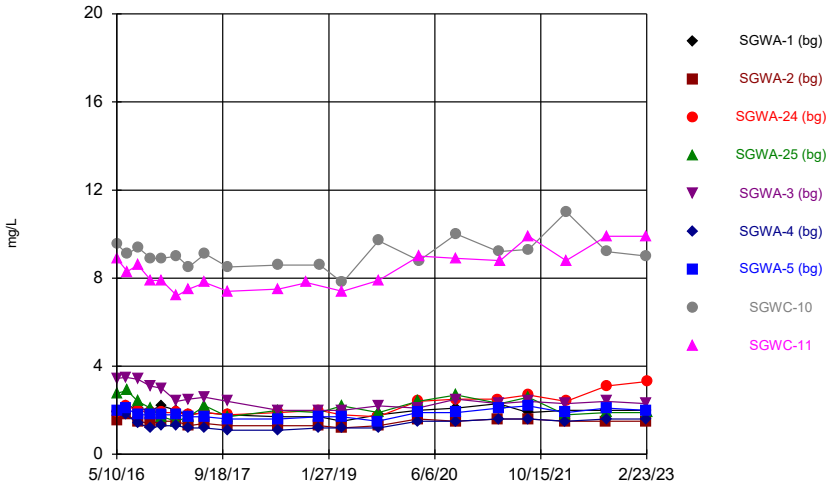


Constituent: Calcium, total Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

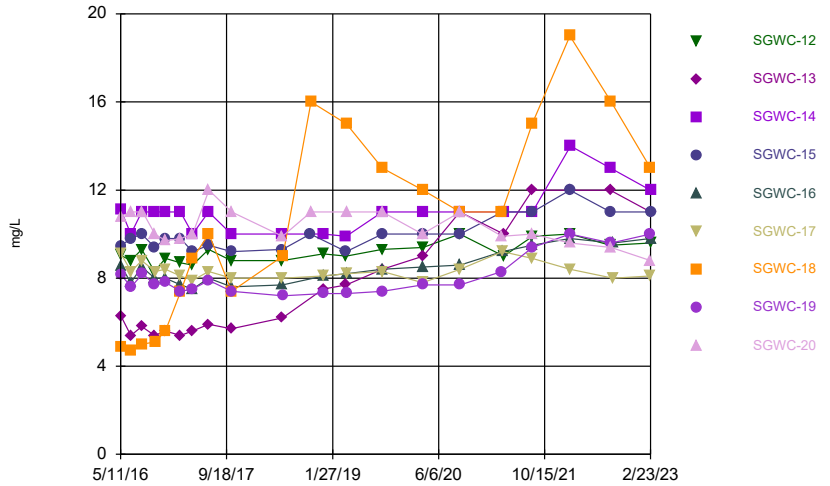
Time Series



Constituent: Chloride, Total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

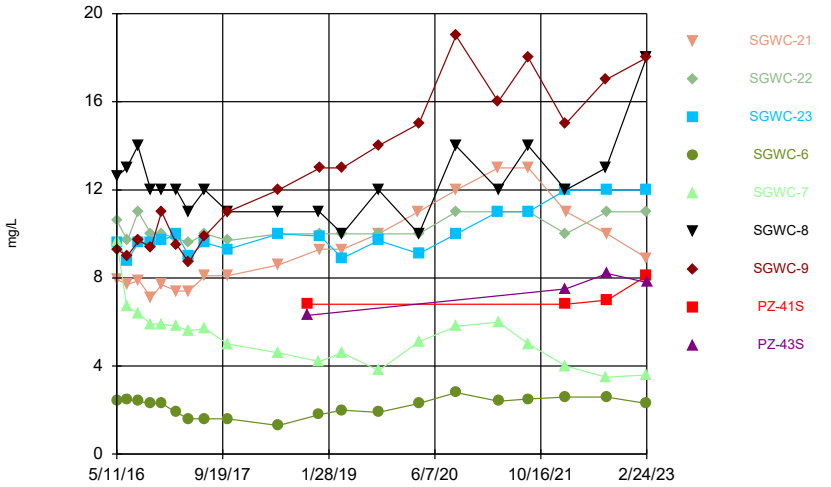
Time Series



Constituent: Chloride, Total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

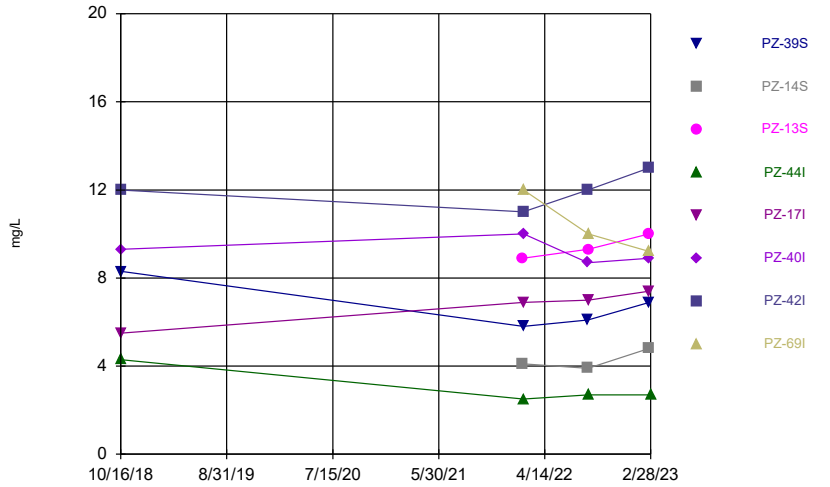
Time Series



Constituent: Chloride, Total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

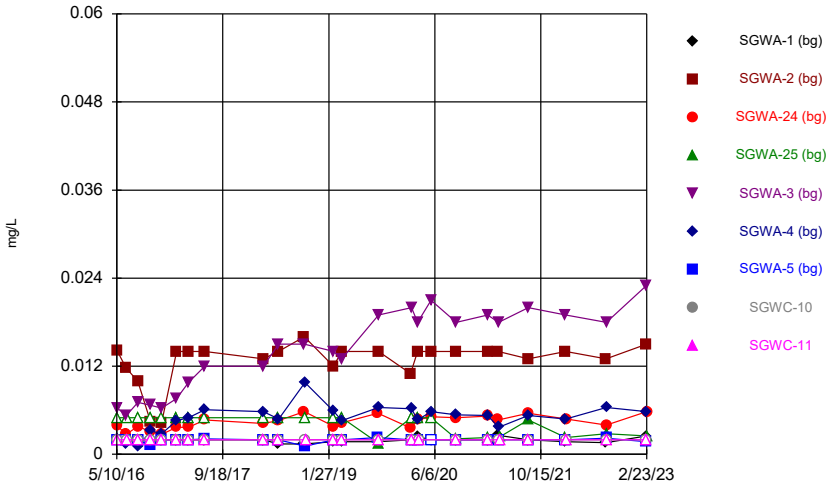
Time Series



Constituent: Chloride, Total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

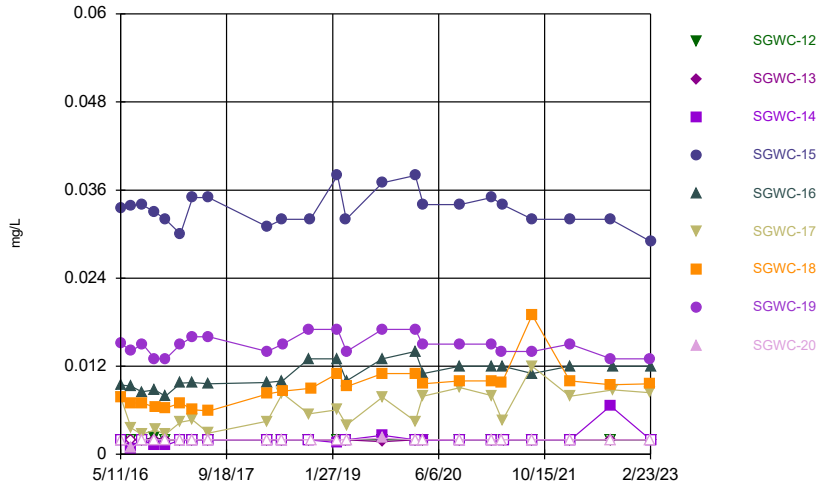
Time Series



Constituent: Chromium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

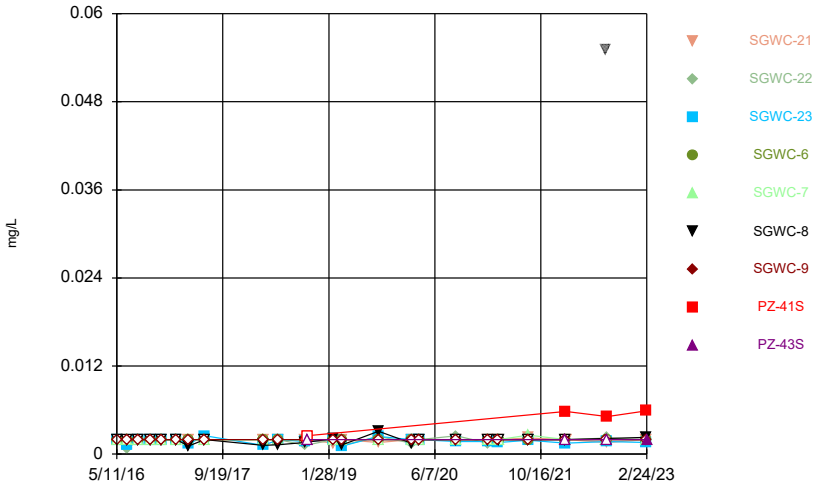
Time Series



Constituent: Chromium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

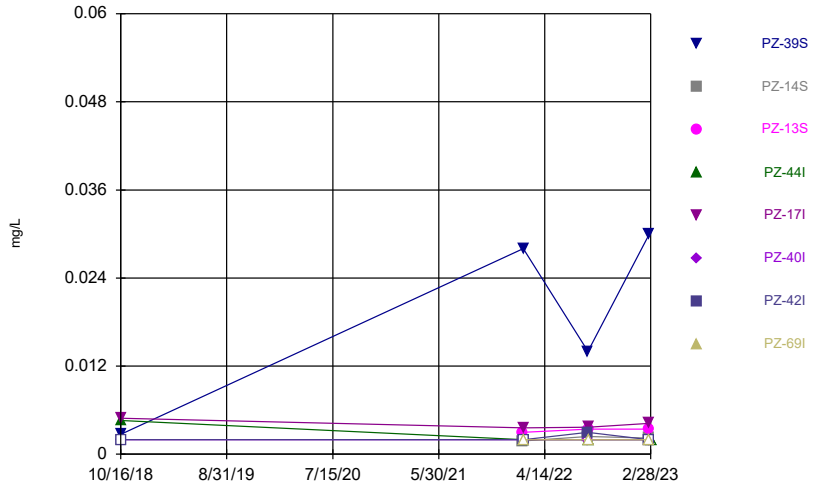
Time Series



Constituent: Chromium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

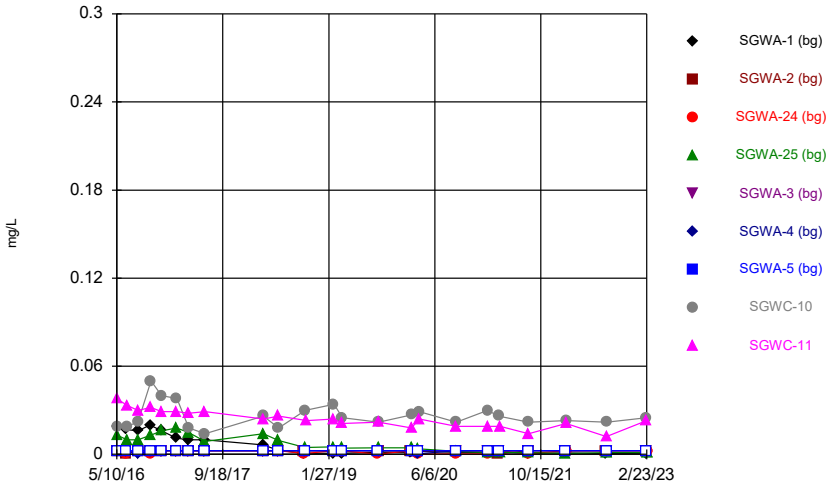
Time Series



Constituent: Chromium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

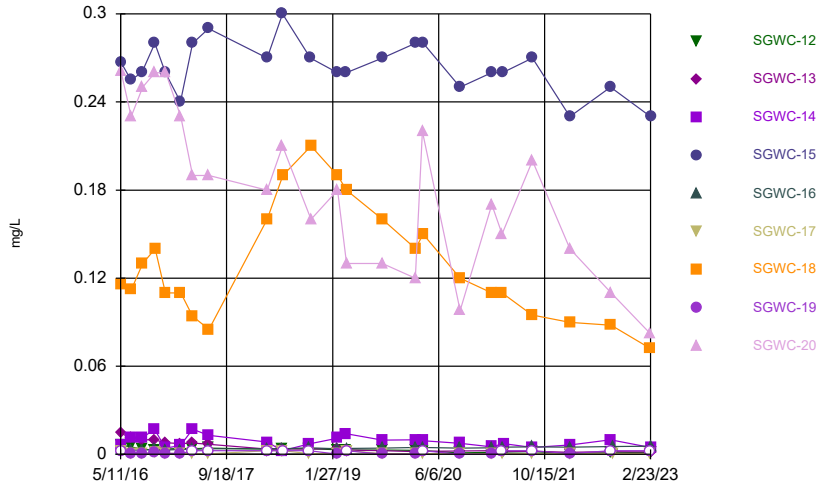
Time Series



Constituent: Cobalt Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

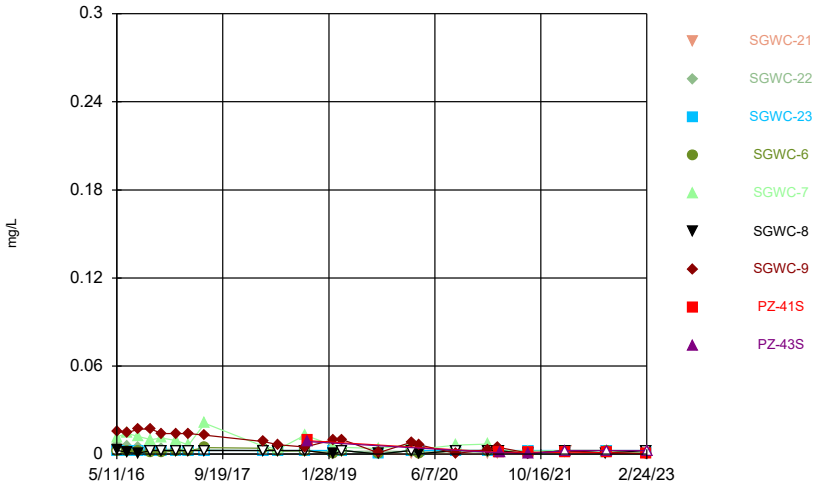
Time Series



Constituent: Cobalt Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

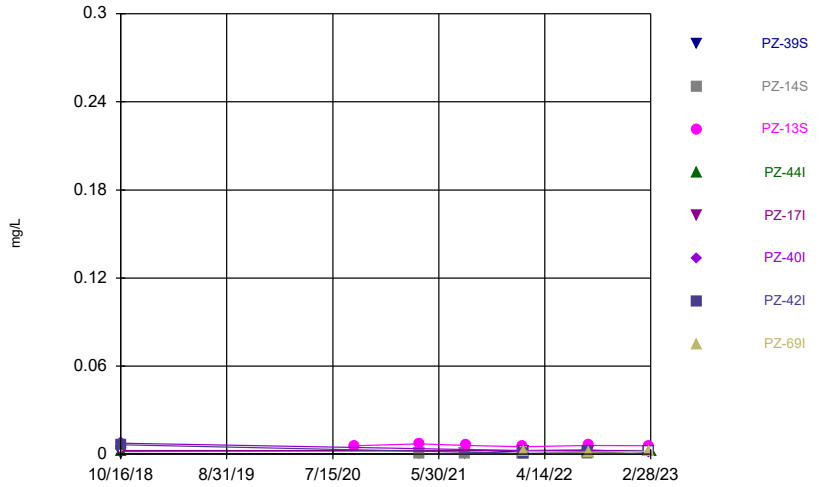
Time Series



Constituent: Cobalt Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

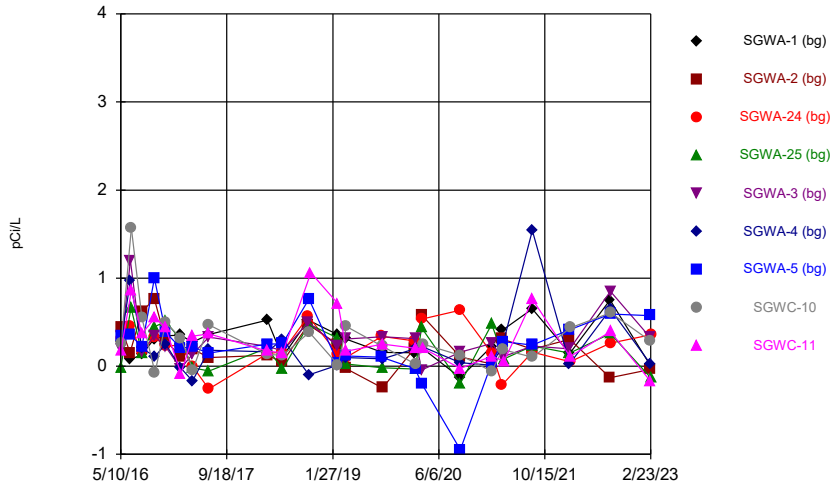
Time Series



Constituent: Cobalt Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

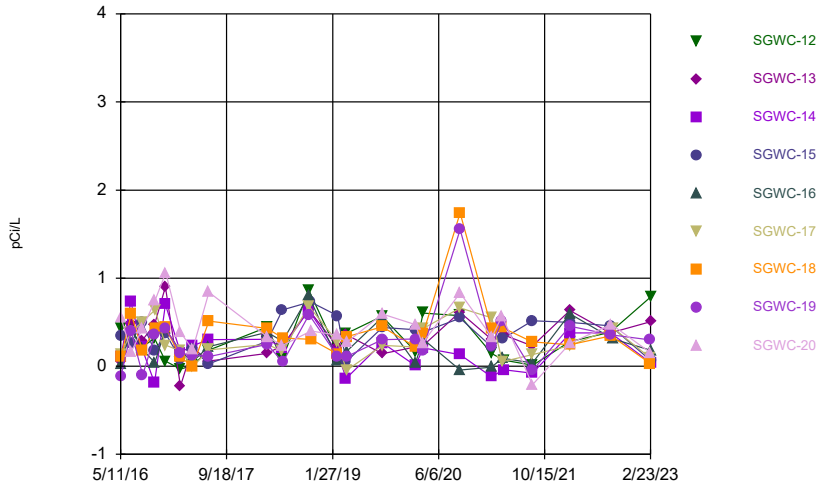


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

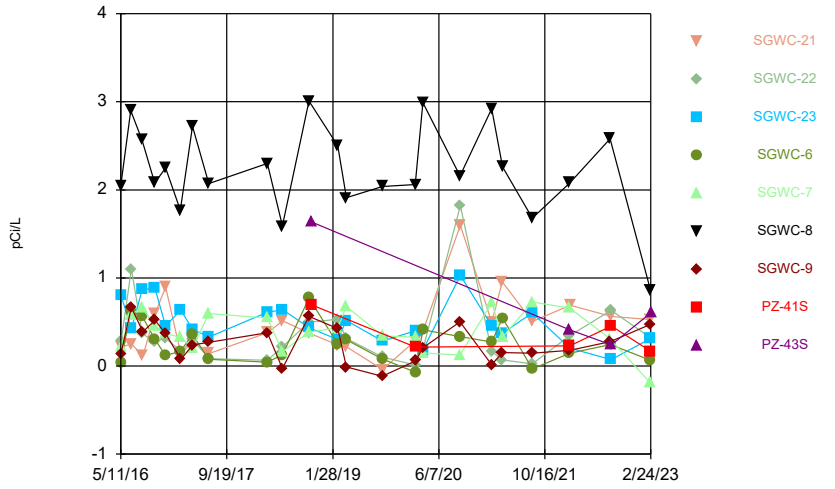


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

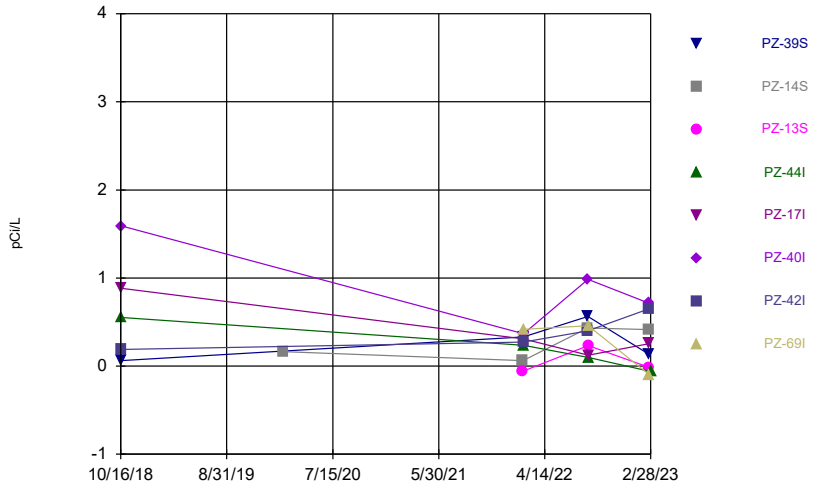


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

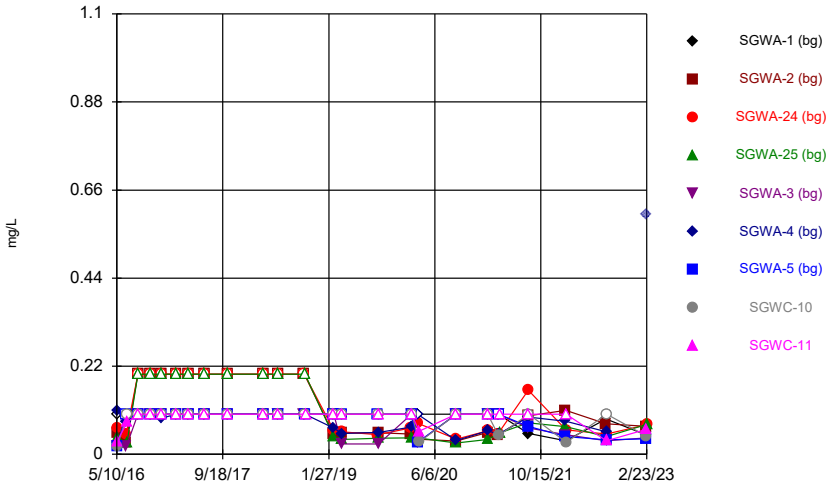


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 2:10 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

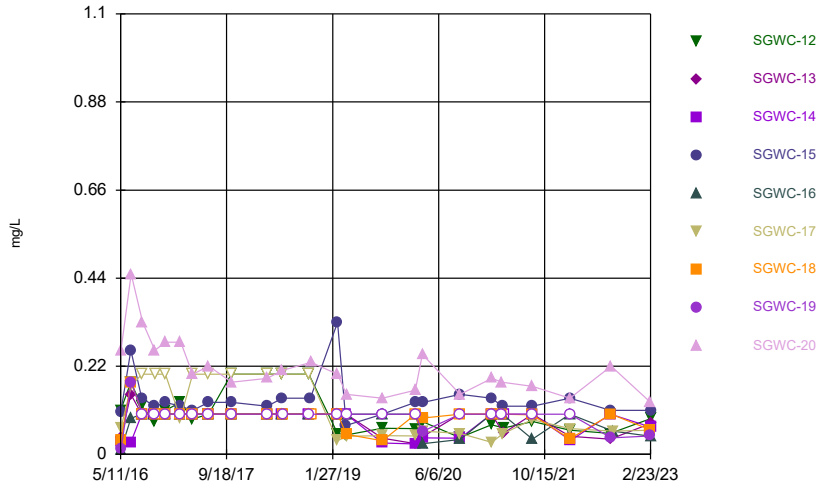
Time Series



Constituent: Fluoride, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

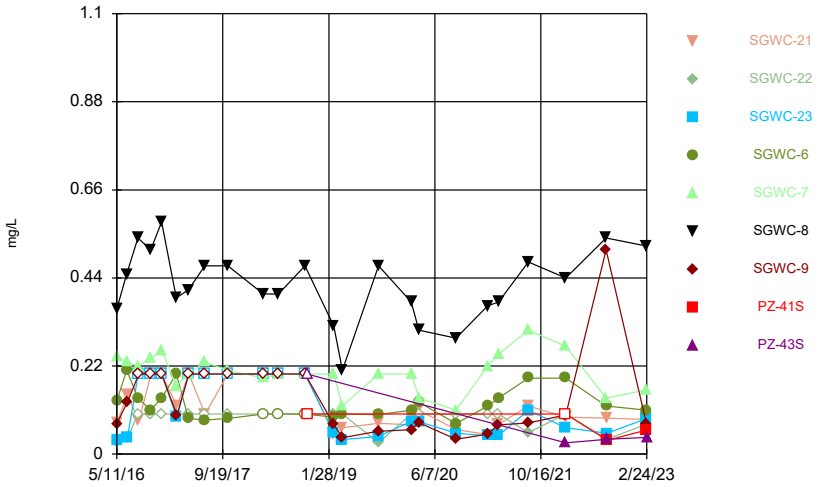
Time Series



Constituent: Fluoride, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

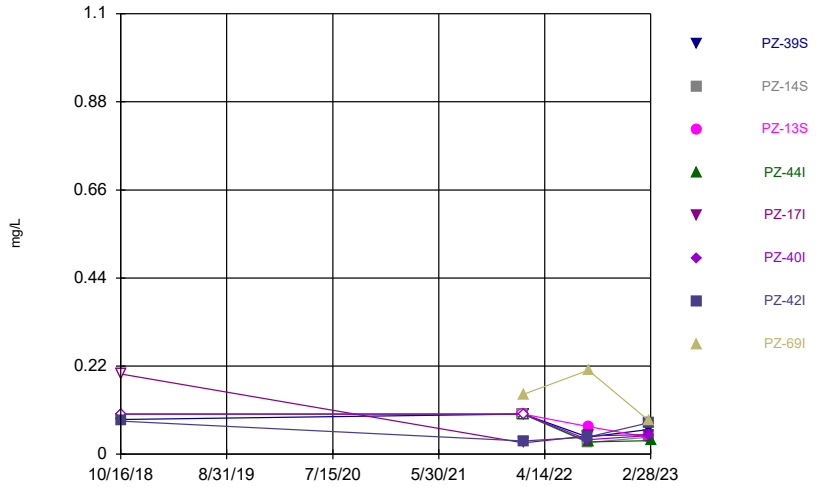
Time Series



Constituent: Fluoride, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

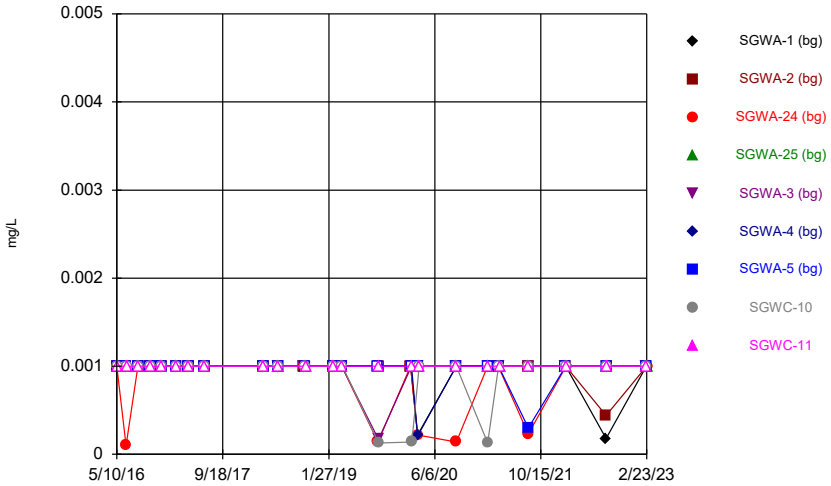
Time Series



Constituent: Fluoride, total Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

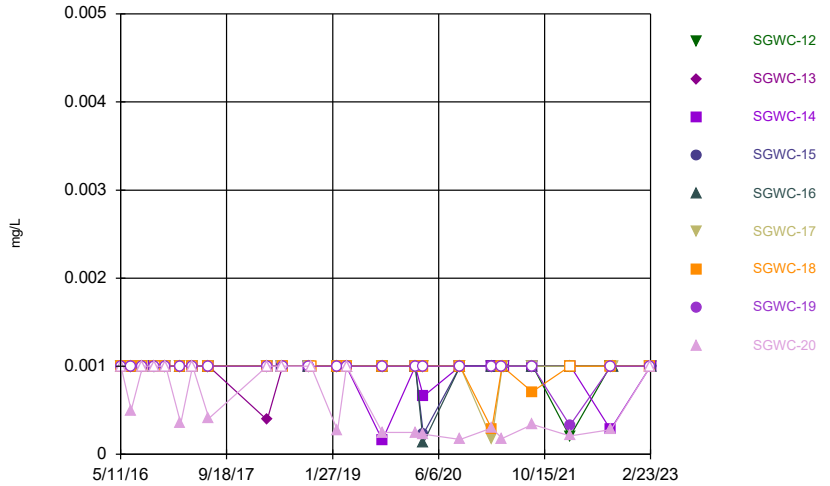
Time Series



Constituent: Lead Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

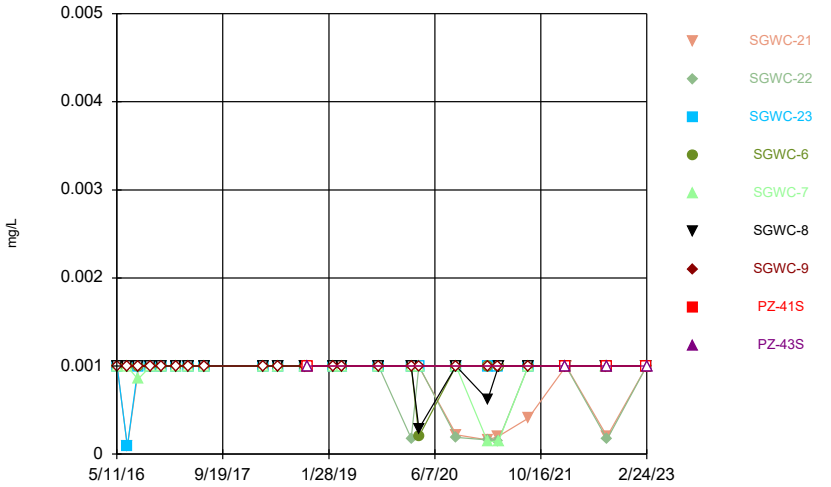
Time Series



Constituent: Lead Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

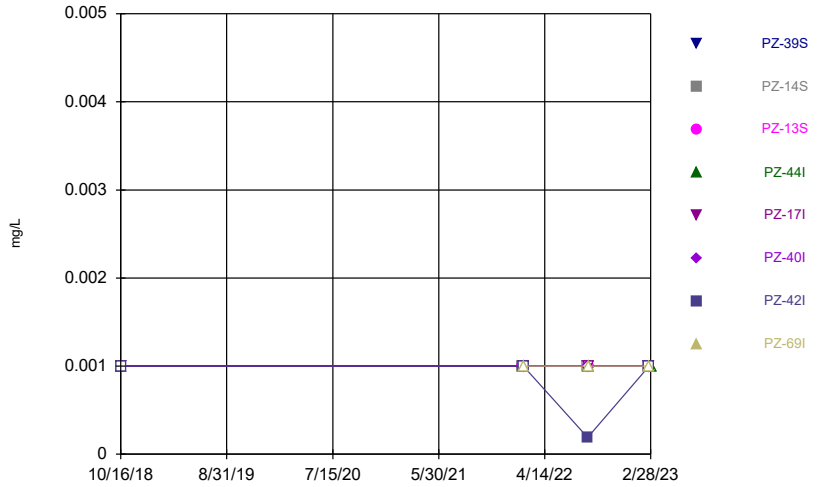
Time Series



Constituent: Lead Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

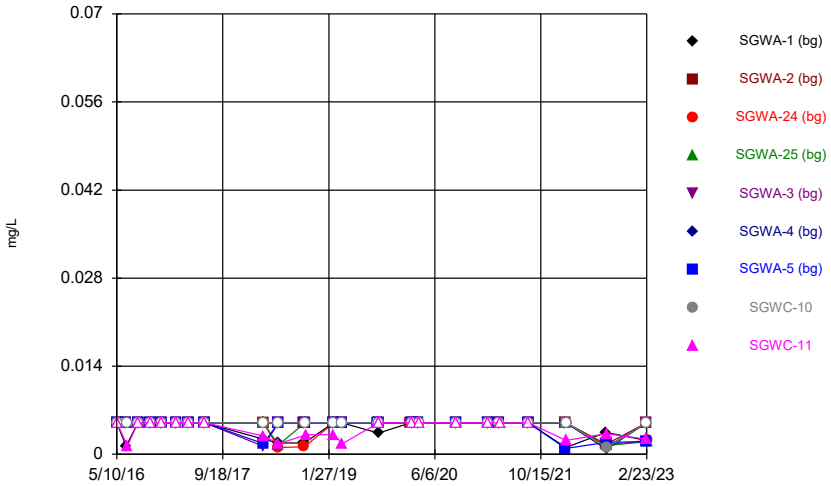
Time Series



Constituent: Lead Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

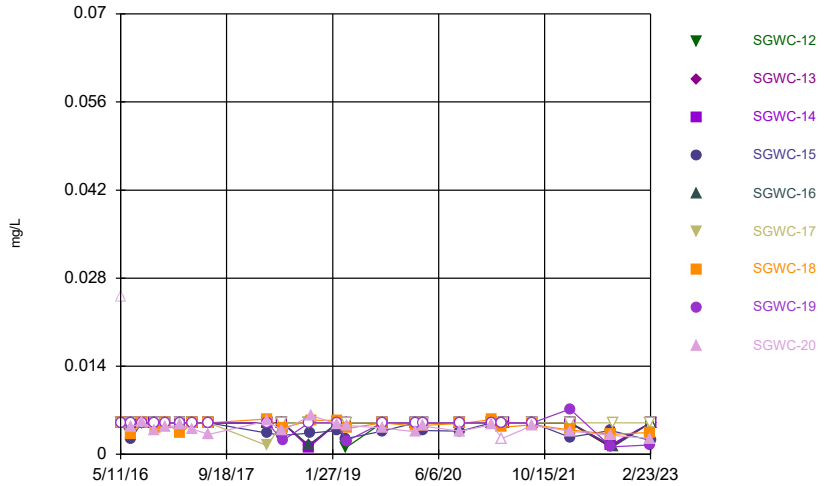
Time Series



Constituent: Lithium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

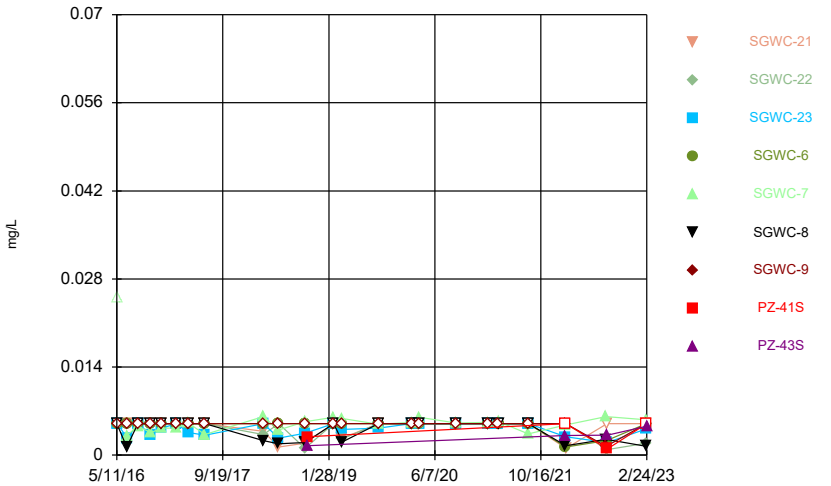
Time Series



Constituent: Lithium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

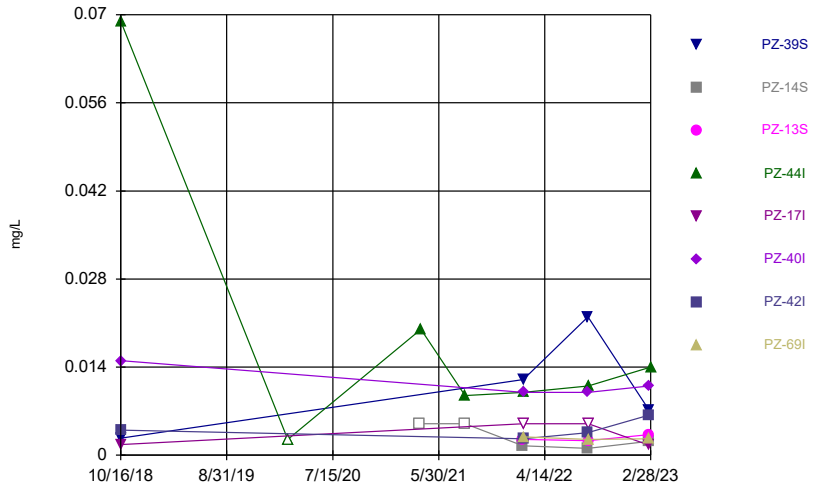
Time Series



Constituent: Lithium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

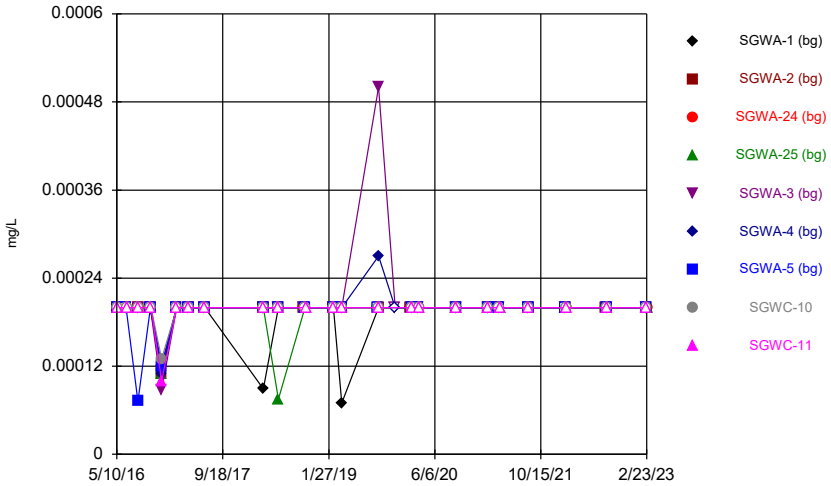
Time Series



Constituent: Lithium Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

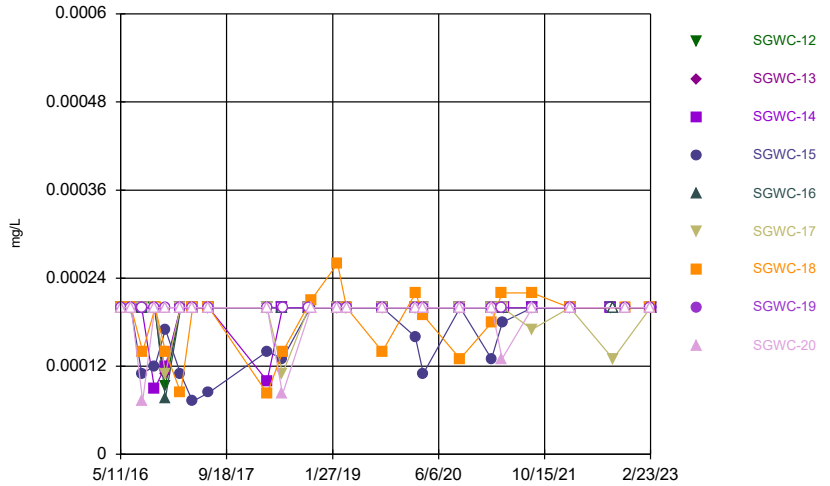
Time Series



Constituent: Mercury Analysis Run 5/8/2023 2:10 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

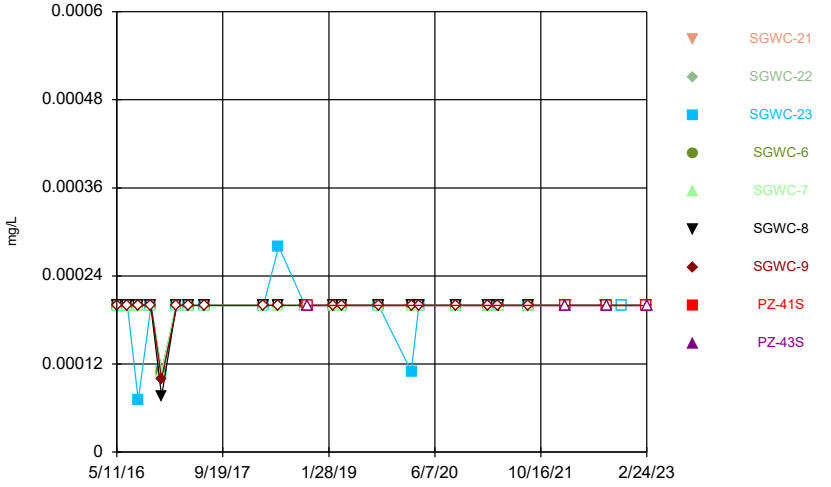
Time Series



Constituent: Mercury Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

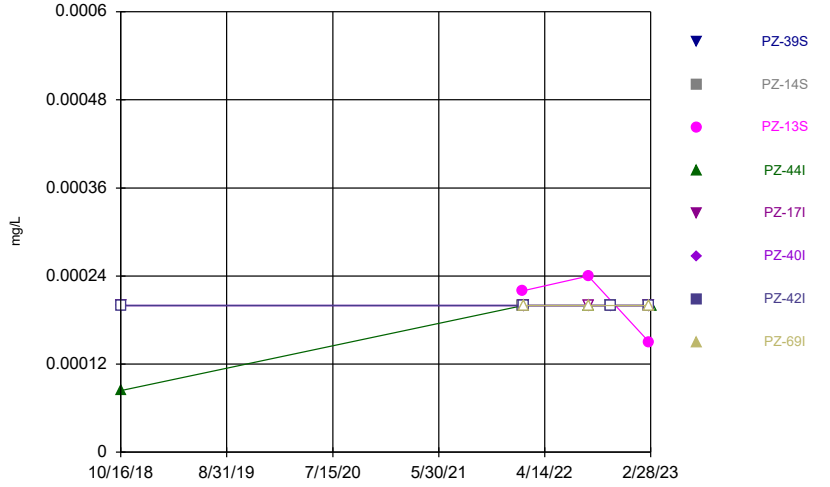
Time Series



Constituent: Mercury Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

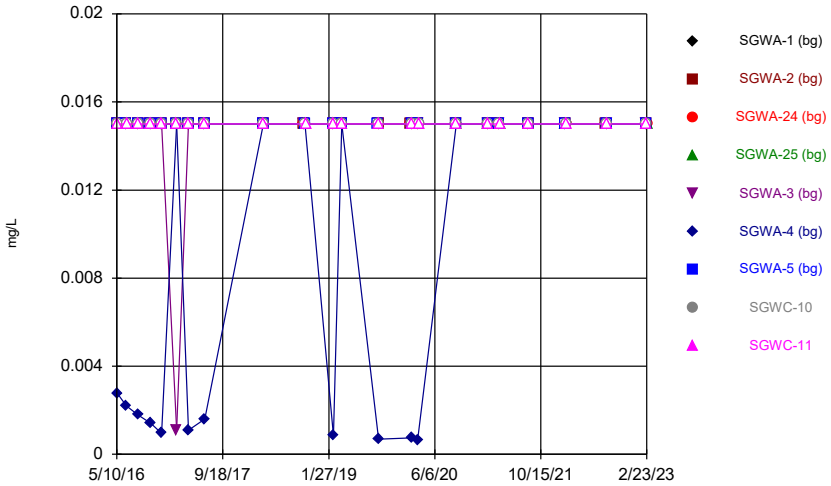
Time Series



Constituent: Mercury Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

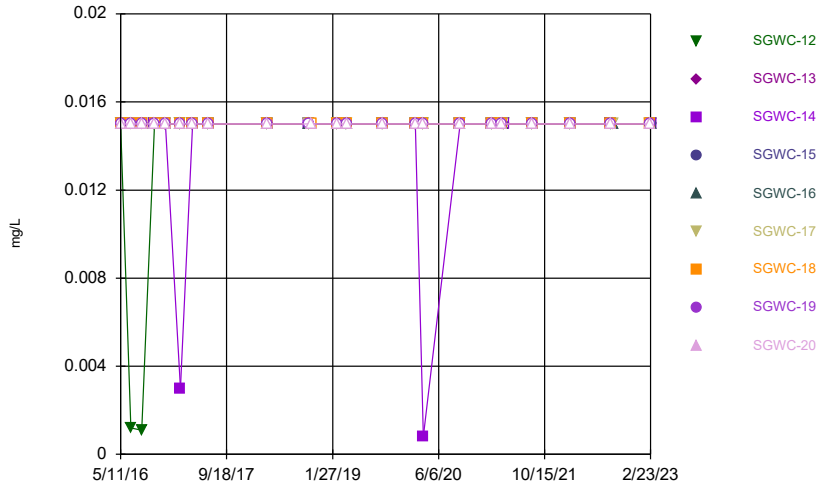
Time Series



Constituent: Molybdenum Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

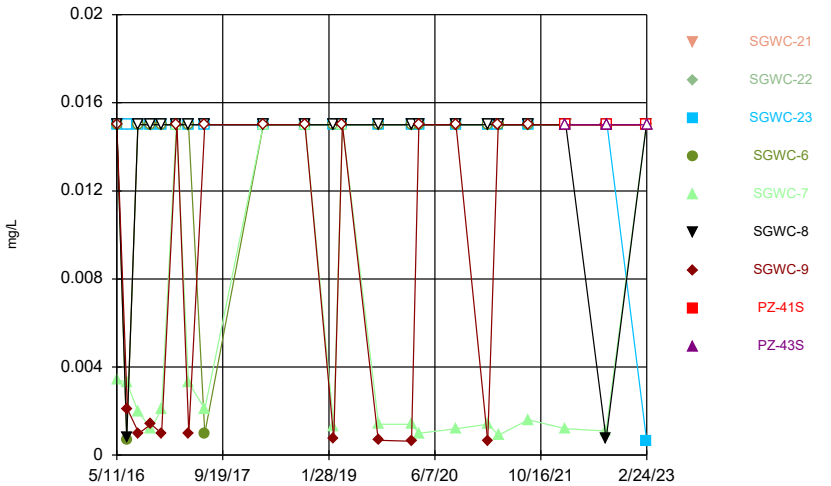
Time Series



Constituent: Molybdenum Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

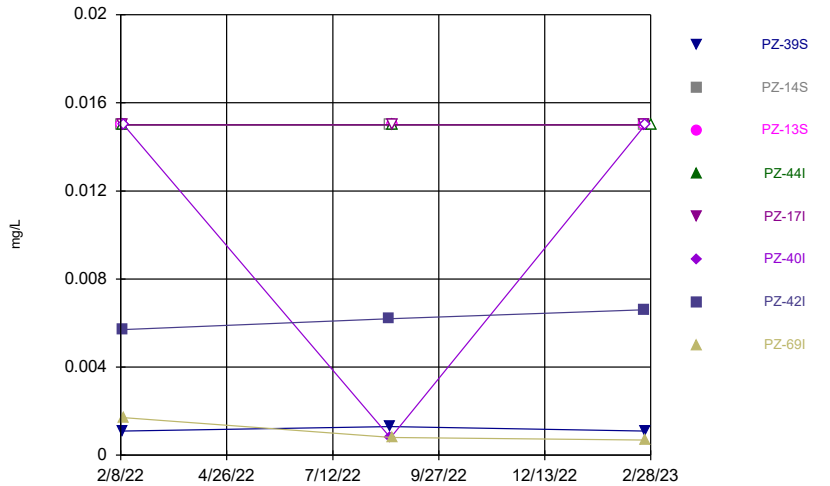
Time Series



Constituent: Molybdenum Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

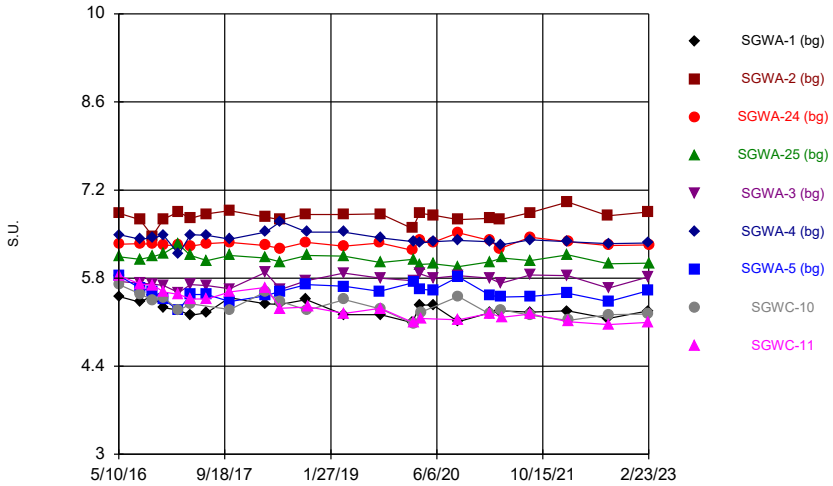
Time Series



Constituent: Molybdenum Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

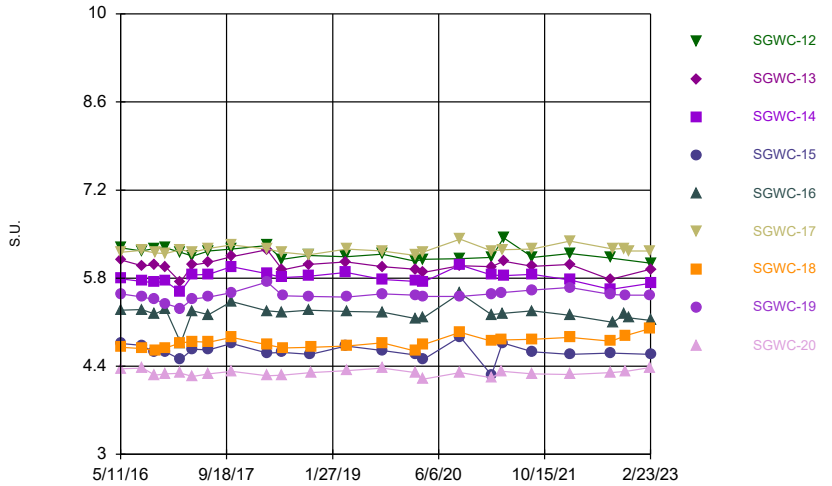


Constituent: pH Analysis Run 5/8/2023 2:11 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

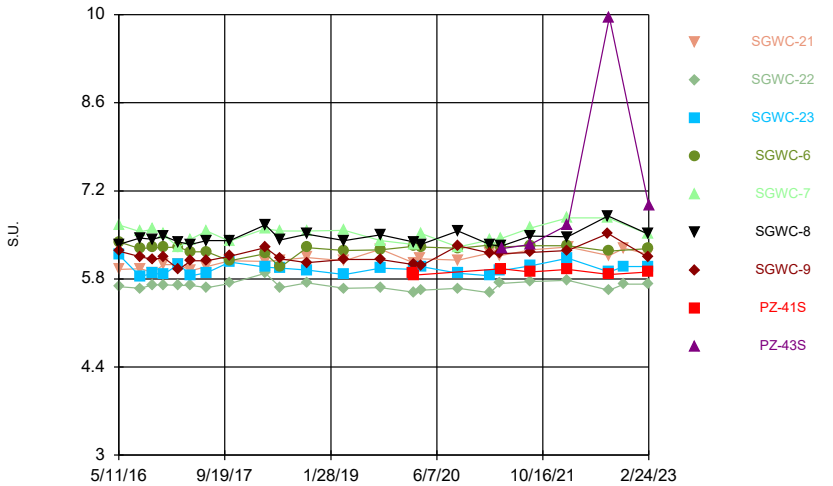


Constituent: pH Analysis Run 5/8/2023 2:11 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

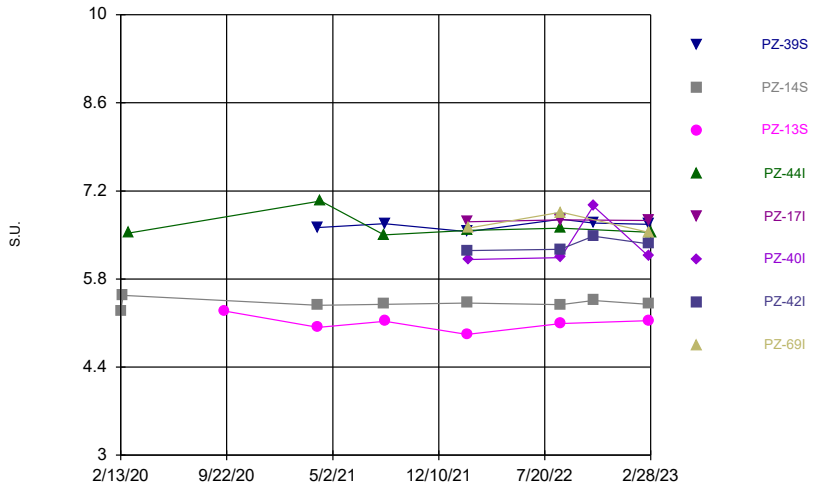


Constituent: pH Analysis Run 5/8/2023 2:11 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

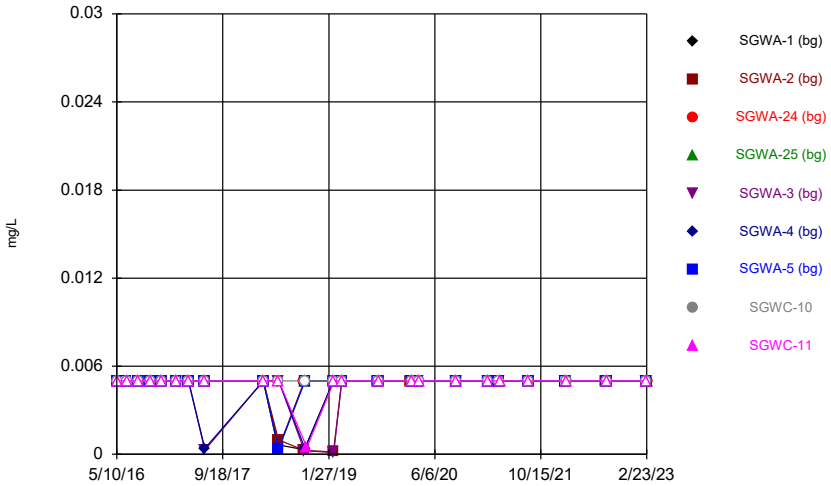


Constituent: pH Analysis Run 5/8/2023 2:11 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

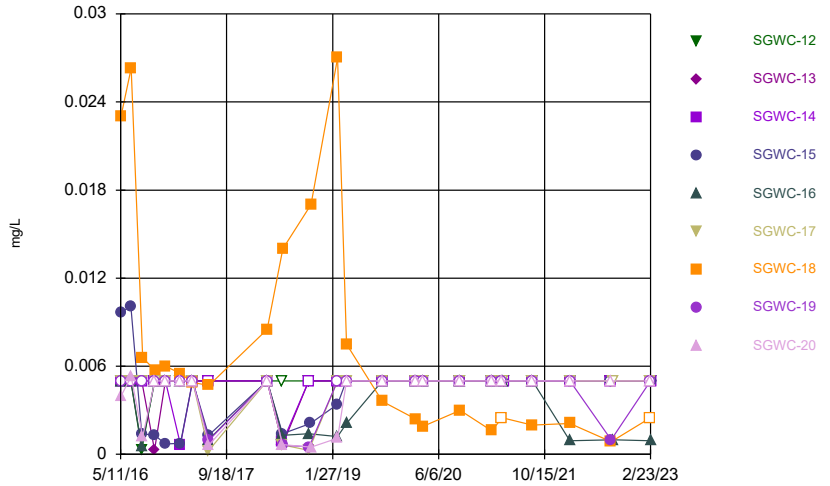
Time Series



Constituent: Selenium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

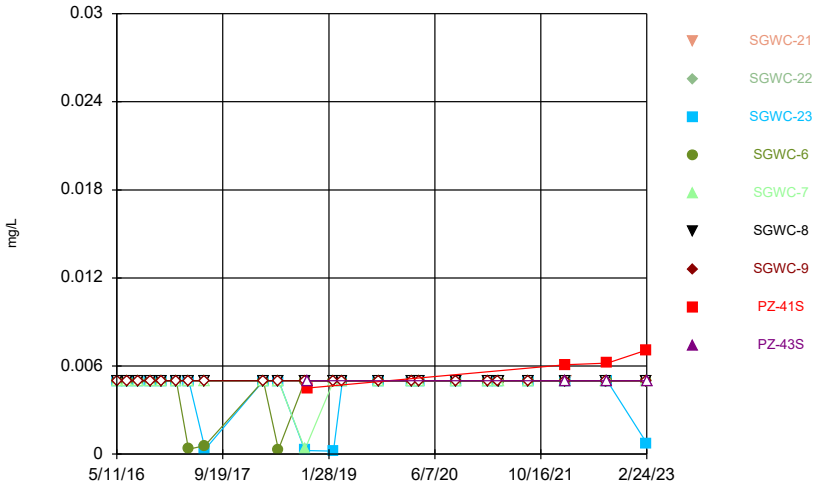
Time Series



Constituent: Selenium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

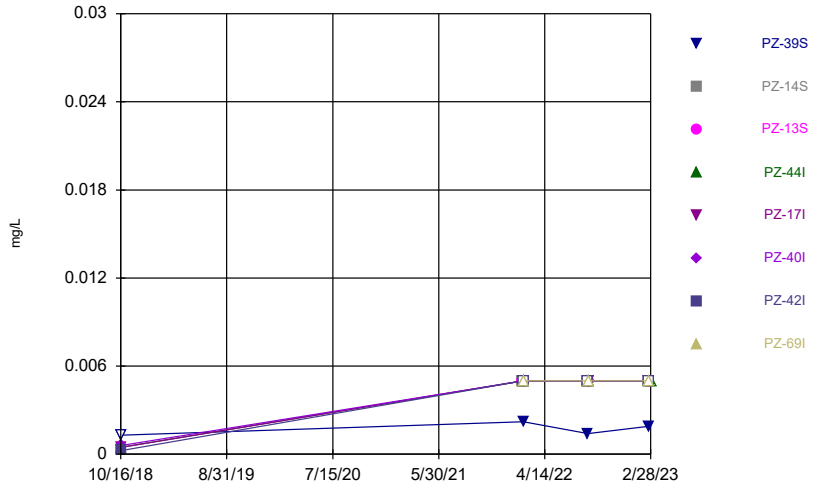
Time Series



Constituent: Selenium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

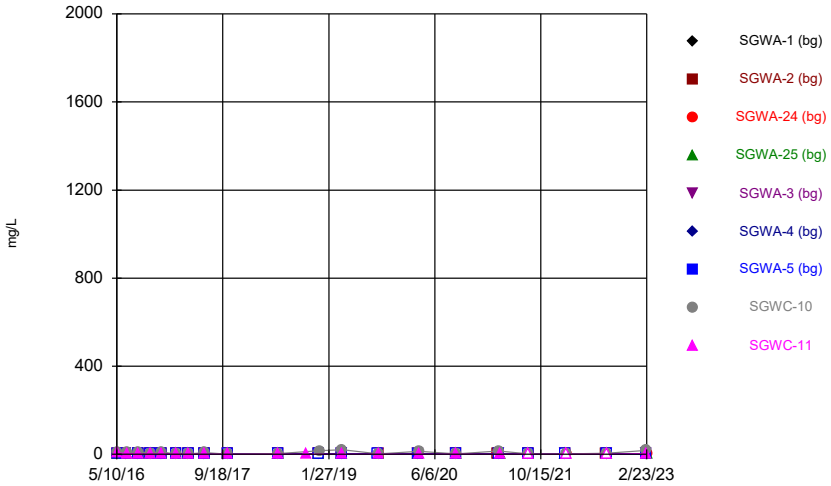
Time Series



Constituent: Selenium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

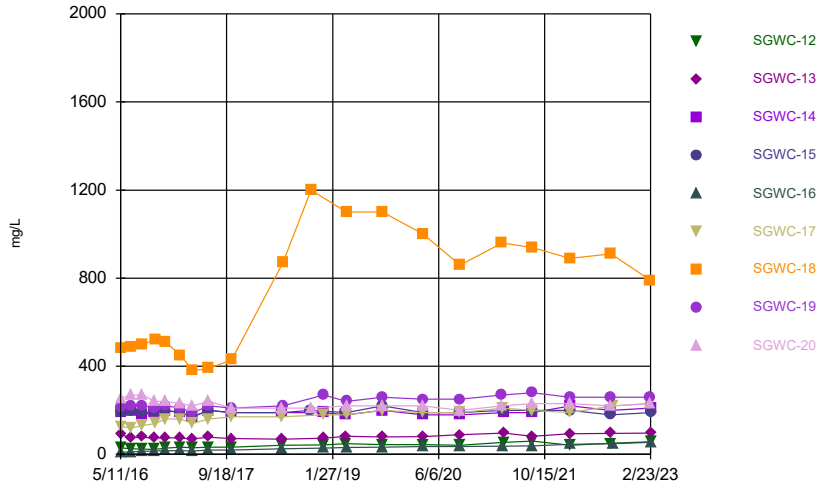
Time Series



Constituent: Sulfate, total Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

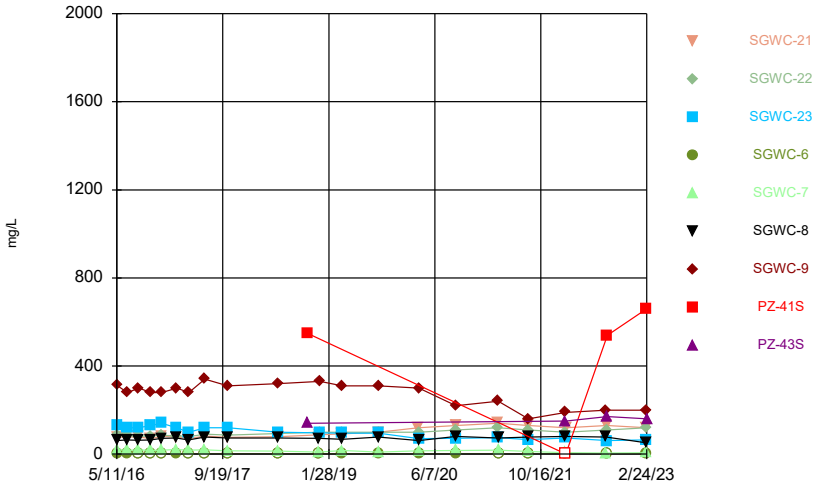
Time Series



Constituent: Sulfate, total Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

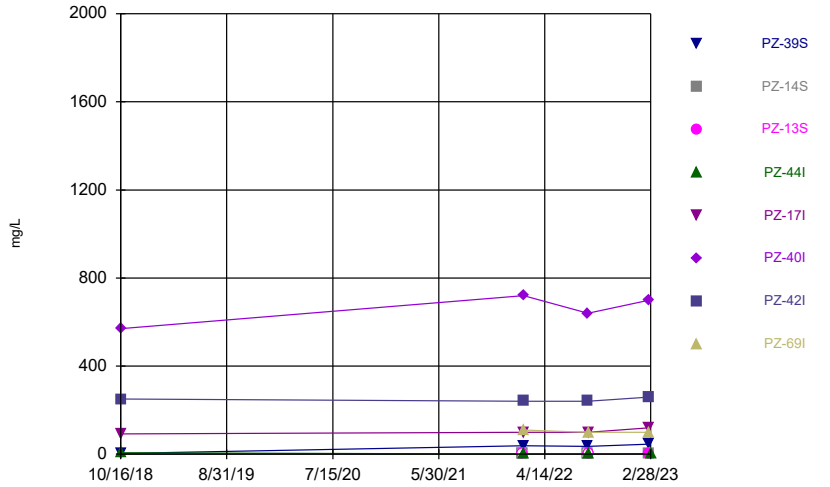
Time Series



Constituent: Sulfate, total Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

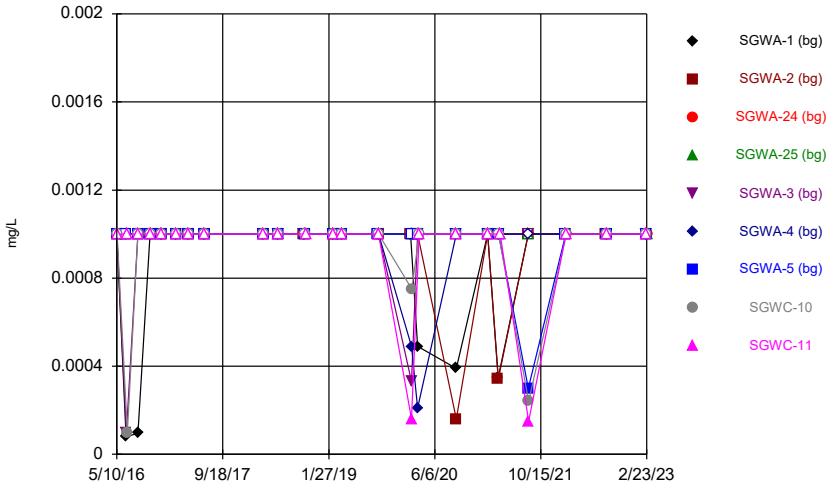
Time Series



Constituent: Sulfate, total Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

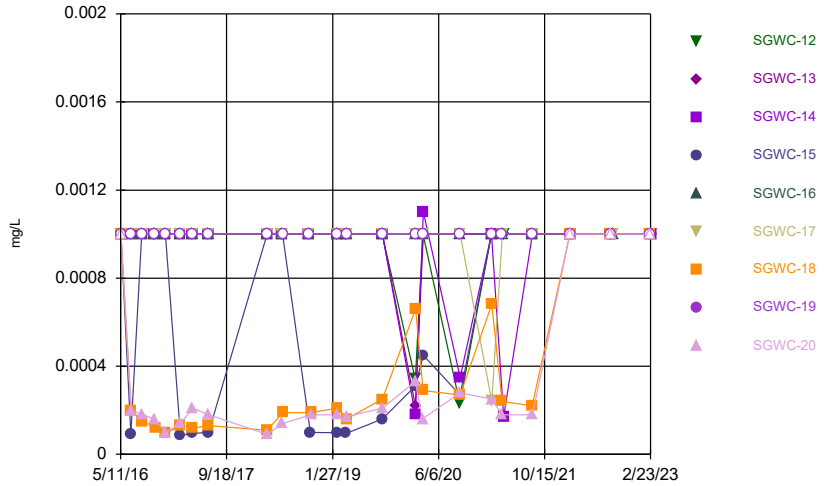
Time Series



Constituent: Thallium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

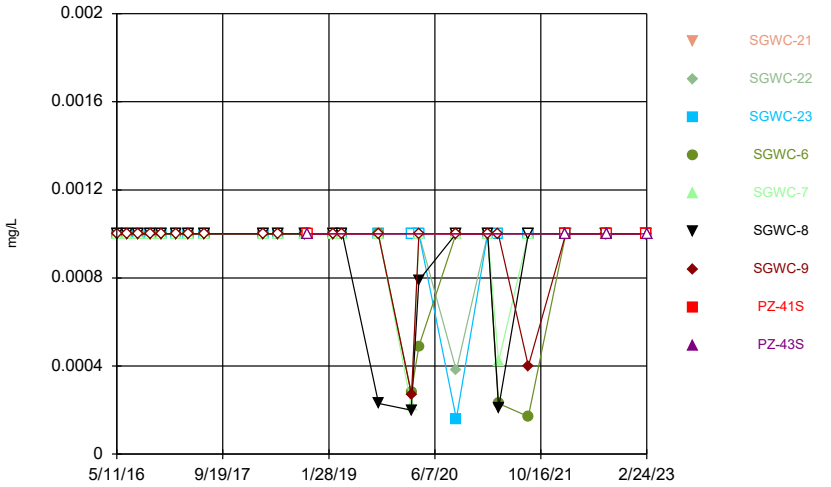
Time Series



Constituent: Thallium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

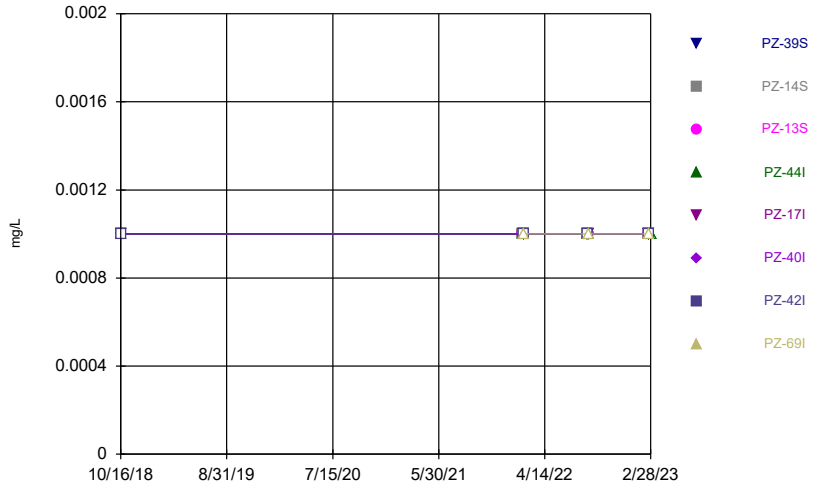
Time Series



Constituent: Thallium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

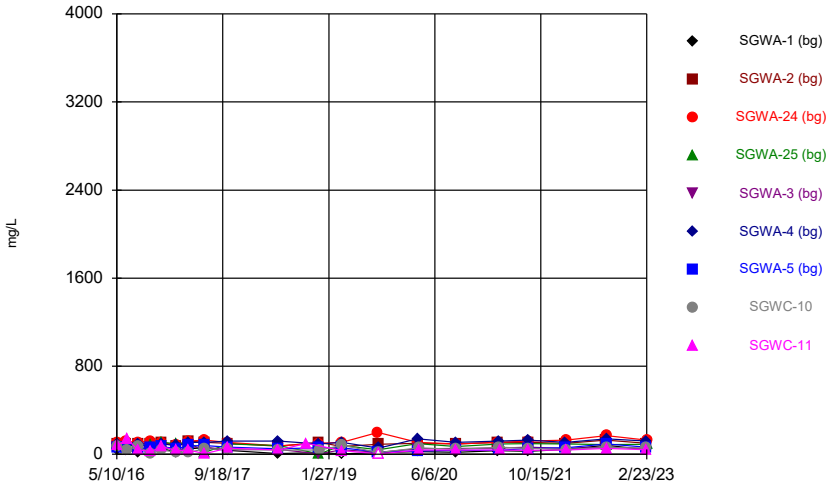
Time Series



Constituent: Thallium Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

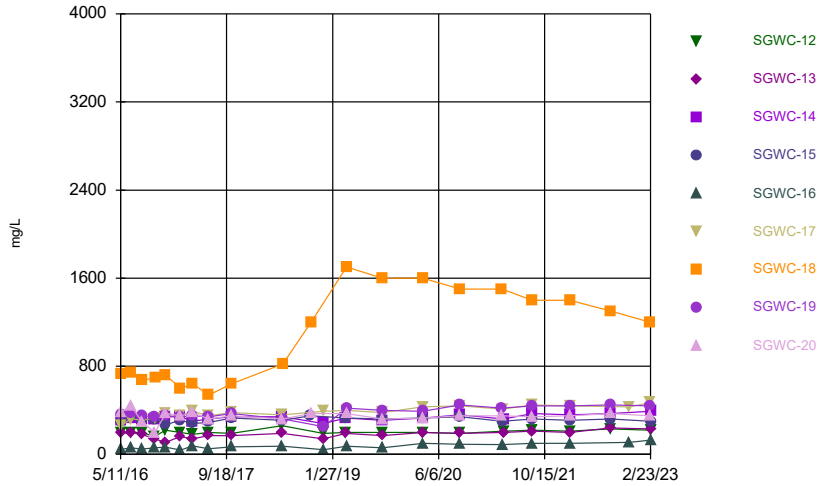
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

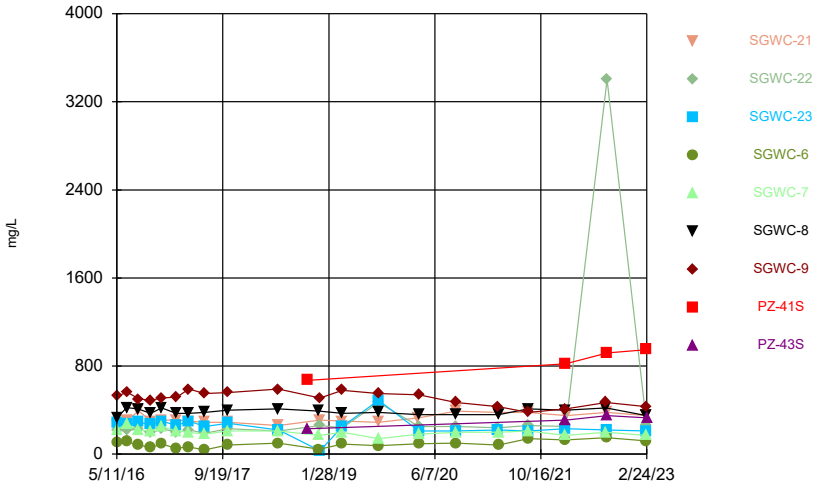
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

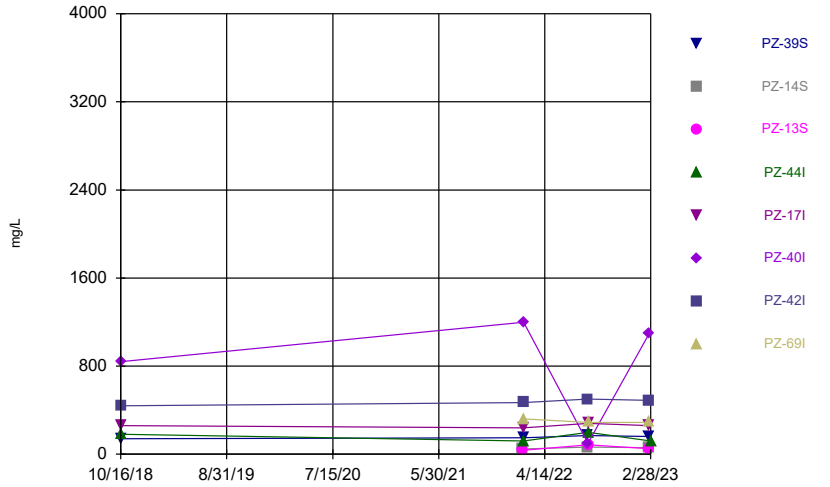
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:11 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002		
5/11/2016						<0.002		<0.002	<0.002
6/23/2016	0.0004 (J)	<0.002	0.0003 (J)				<0.002		
6/24/2016					0.0021 (J)	0.0007 (J)			
6/27/2016				0.0003 (J)					
6/28/2016								0.0014 (J)	<0.002
8/16/2016	0.0012 (J)	<0.002	<0.002		<0.002		<0.002		
8/17/2016				<0.002		<0.002		<0.002	<0.002
10/13/2016	<0.002		<0.002						
10/14/2016		<0.002		<0.002	<0.002		<0.002		
10/17/2016						<0.002		<0.002	<0.002
12/5/2016			<0.002						
12/6/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/14/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
2/15/2017								<0.002	<0.002
4/10/2017			<0.002						
4/11/2017	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002		
4/12/2017								<0.002	<0.002
6/26/2017	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002		
6/27/2017				<0.002				<0.002	<0.002
3/26/2018	<0.002	<0.002	<0.002		<0.002				
3/27/2018				<0.002		<0.002	<0.002	<0.002	<0.002
10/5/2018	<0.002	<0.002	<0.002		<0.002				
10/8/2018				<0.002		<0.002	<0.002		
10/9/2018								<0.002	
2/18/2019	<0.002	<0.002				<0.002			
2/19/2019			<0.002	<0.002	<0.002		<0.002		
2/20/2019								<0.002	<0.002
3/28/2019				<0.002	<0.002	<0.002	<0.002		
3/29/2019	<0.002	<0.002	<0.002						
2/13/2020	<0.002	<0.002	<0.002						
2/17/2020				<0.002			<0.002		
2/18/2020					<0.002	<0.002			<0.002
2/19/2020								<0.002	
2/9/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/17/2021	<0.002	<0.002		<0.002		<0.002			
8/18/2021			<0.002		<0.002		<0.002		
8/19/2021								<0.002	<0.002
2/9/2022	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002		
2/10/2022			<0.002						<0.002
2/11/2022								<0.002	
8/17/2022	0.00052 (J)	<0.002							
8/18/2022			<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
8/19/2022								<0.002	
2/21/2023	<0.002				<0.002		<0.002		
2/22/2023		<0.002				<0.002		<0.002	<0.002
2/23/2023			<0.002	<0.002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.002								
5/12/2016		<0.002	<0.002	<0.002	<0.002	<0.002			<0.002
5/13/2016							<0.002	<0.002	
6/28/2016	<0.002	0.0004 (J)	<0.002	<0.002	<0.002				
6/29/2016						<0.002		<0.002	<0.002
6/30/2016							0.0012 (J)		
8/18/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
8/22/2016							<0.002	<0.002	<0.002
10/17/2016	<0.002	<0.002	<0.002						
10/18/2016				<0.002	<0.002			<0.002	<0.002
10/19/2016						<0.002	<0.002		
12/6/2016	<0.002	<0.002							
12/7/2016			<0.002	<0.002	<0.002	<0.002	<0.002		
12/8/2016								<0.002	<0.002
2/15/2017	<0.002	<0.002 (F1)	<0.002	<0.002		<0.002			
2/16/2017					<0.002		<0.002	<0.002	<0.002
4/12/2017	<0.002	<0.002	<0.002	<0.002					
4/13/2017					<0.002	<0.002	<0.002	<0.002	<0.002
6/27/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
6/28/2017							<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
3/28/2018							<0.002	<0.002	<0.002
10/8/2018	<0.002	<0.002	<0.002		<0.002	<0.002			
10/9/2018								<0.002	
2/20/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/18/2020									<0.002
2/19/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
2/20/2020							<0.002		
2/9/2021	<0.002	<0.002	<0.002	<0.002	<0.002				
2/10/2021						<0.002	<0.002	<0.002	<0.002
8/18/2021						<0.002	<0.002		
8/19/2021		<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
8/20/2021	<0.002								
2/10/2022	<0.002				<0.002		<0.002		
2/11/2022		<0.002		<0.002		<0.002		<0.002	<0.002
2/14/2022			<0.002						
8/18/2022	<0.002	<0.002							
8/19/2022			<0.002	<0.002					
8/22/2022								0.0021	0.0019 (J)
8/23/2022							<0.002		
8/31/2022					<0.002	<0.002			
2/22/2023						<0.002	<0.002	<0.002	<0.002
2/23/2023	<0.002	<0.002	<0.002	<0.002	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.002	<0.002	<0.002	<0.002		
5/12/2016	<0.002	<0.002	<0.002						
6/27/2016				<0.002	0.0004 (J)	<0.002			
6/29/2016	<0.002	<0.002	<0.002				<0.002		
8/17/2016				<0.002	<0.002	<0.002			
8/19/2016		<0.002	<0.002						
8/22/2016	<0.002						<0.002		
10/17/2016				<0.002		<0.002			
10/18/2016	<0.002	<0.002	<0.002		<0.002		<0.002		
12/6/2016				<0.002	<0.002	<0.002			
12/7/2016	<0.002	<0.002	<0.002				<0.002		
2/14/2017				<0.002	<0.002	<0.002			
2/15/2017			<0.002						
2/16/2017	<0.002	<0.002					<0.002		
4/12/2017				<0.002	<0.002	<0.002			
4/13/2017	<0.002	<0.002	<0.002				<0.002		
6/27/2017				<0.002	<0.002	<0.002	<0.002		
6/28/2017	<0.002	<0.002	<0.002						
3/27/2018			<0.002	<0.002	<0.002	<0.002			
3/28/2018	<0.002	<0.002					<0.002		
10/8/2018	<0.002	<0.002	<0.002	<0.002					
10/9/2018					<0.002	<0.002	<0.002		
2/19/2019		<0.002	<0.002						
2/20/2019	<0.002			<0.002	<0.002	<0.002	<0.002		
2/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
2/19/2020							<0.002		
2/9/2021				<0.002	<0.002	<0.002	<0.002		
2/10/2021	<0.002	<0.002	<0.002						
8/18/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
8/19/2021							<0.002		
2/9/2022				<0.002	<0.002			<0.002	<0.002
2/10/2022		<0.002	<0.002			<0.002	<0.002		
2/11/2022	<0.002								
8/18/2022					<0.002	<0.002	<0.002		
8/19/2022				<0.002					
8/22/2022	0.0019 (J)	0.0022	0.00098 (J)						
8/24/2022								<0.002	<0.002
2/22/2023				<0.002	<0.002	<0.002	<0.002		
2/23/2023	<0.002	<0.002	<0.002					<0.002	
2/24/2023									<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
2/8/2022		<0.002	<0.002					
2/9/2022	<0.002			<0.002	0.00061 (J)		<0.002	
2/10/2022						<0.002		<0.002
8/22/2022							<0.002	
8/23/2022	<0.002	<0.002				0.00089 (J)		
8/24/2022			<0.002	<0.002	<0.002			<0.002
2/23/2023		<0.002	<0.002		<0.002		<0.002	
2/24/2023	<0.002					<0.002		<0.002
2/28/2023				<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
5/11/2016						<0.001		<0.001	0.00103 (J)
6/23/2016	<0.001	<0.001	<0.001				<0.001		
6/24/2016					<0.001	<0.001			
6/27/2016				<0.001					
6/28/2016								<0.001	0.0011 (J)
8/16/2016	0.00065 (J)	0.0005 (J)	<0.001		<0.001		<0.001		
8/17/2016				0.0012 (J)		<0.001		<0.001	0.0011 (J)
10/13/2016	<0.001		<0.001						
10/14/2016		<0.001		0.00073 (J)	<0.001		<0.001		
10/17/2016						<0.001		<0.001	0.0011 (J)
12/5/2016			<0.001						
12/6/2016	<0.001	<0.001		0.00075 (J)	<0.001	<0.001	<0.001	<0.001	0.00072 (J)
2/14/2017	0.00055 (J)	0.00046 (J)	0.00057 (J)	0.0015 (J)	<0.001	<0.001	<0.001		
2/15/2017								0.0005 (J)	0.0011 (J)
4/10/2017			<0.001						
4/11/2017	<0.001	<0.001		0.00072 (J)	<0.001	0.0011 (J)	<0.001		
4/12/2017								<0.001	0.00076 (J)
6/26/2017	0.00081 (J)	0.00089 (J)	0.0009 (J)		0.00063 (J)	0.00055 (J)	0.00079 (J)		
6/27/2017				0.00095 (J)				0.00074 (J)	0.0011 (J)
3/26/2018	<0.001	<0.001	<0.001		<0.001				
3/27/2018				0.00052 (J)		<0.001	<0.001	<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001		
6/6/2018					<0.001	<0.001		<0.001	<0.001
10/5/2018	<0.001	<0.001	<0.001		<0.001				
10/8/2018				<0.001		<0.001	<0.001		
10/9/2018								<0.001	
10/16/2018									<0.001
2/18/2019	<0.001	<0.001				<0.001			
2/19/2019			<0.001	<0.001	<0.001		<0.001		
2/20/2019								<0.001	<0.001
3/28/2019				0.00048 (J)	<0.001	<0.001	<0.001		
3/29/2019	<0.001	<0.001	<0.001						
4/1/2019								0.00059 (J)	0.0011 (J)
9/12/2019							<0.001		
9/13/2019			<0.001						
9/16/2019	<0.001	<0.001		<0.001	<0.001	<0.001			<0.001
9/17/2019								<0.001	
2/13/2020	<0.001	<0.001	<0.001						
2/17/2020				<0.001			<0.001		
2/18/2020					<0.001	<0.001			<0.001
2/19/2020								<0.001	
3/17/2020		<0.001		<0.001	<0.001		<0.001		
3/18/2020	<0.001		<0.001			<0.001			
3/25/2020								<0.001	<0.001
9/14/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/30/2021	<0.001	<0.001	<0.001						
3/31/2021					<0.001	<0.001	<0.001	<0.001	
4/7/2021				<0.001					<0.001
8/17/2021	<0.001	<0.001		<0.001		<0.001			
8/18/2021			<0.001		<0.001		<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								<0.001	<0.001
2/9/2022	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		
2/10/2022			<0.001						<0.001
2/11/2022								<0.001	
8/17/2022	0.00028 (J)	<0.001							
8/18/2022			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/19/2022								<0.001	
2/21/2023	<0.001				<0.001		<0.001		
2/22/2023		<0.001				0.00029 (J)		<0.001	<0.001
2/23/2023			<0.001	<0.001					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.001								
5/12/2016		<0.001	<0.001	<0.0013	<0.001	<0.001			<0.0013
5/13/2016							0.00161 (J)	<0.001	
6/28/2016	0.001 (J)	<0.001	<0.001	0.0026 (J)	<0.001				
6/29/2016						<0.001		<0.001	0.0018 (J)
6/30/2016							0.004 (J)		
8/18/2016	0.00091 (J)	<0.001	<0.001	0.0015	<0.001	<0.001			
8/22/2016							0.0012 (J)	<0.001	0.001 (J)
10/17/2016	<0.001	<0.001	<0.001						
10/18/2016				0.0019	<0.001			<0.001	0.00085 (J)
10/19/2016						0.001045 (JD)	0.0019		
12/6/2016	<0.001	<0.001							
12/7/2016			<0.001	0.00079 (J)	<0.001	<0.001	0.0012 (J)		
12/8/2016								<0.001	<0.0013
2/15/2017	0.00076 (J)	<0.001	<0.001	0.00073 (J)		0.00059 (J)			
2/16/2017					<0.001		0.00086 (J)	<0.001	<0.0013
4/12/2017	0.00046 (J)	0.00047 (J)	0.00057 (J)	0.0009 (J)					
4/13/2017					<0.001	0.00066 (J)	0.00058 (J)	<0.001	<0.0013
6/27/2017	0.0011 (J)	0.00088 (J)	0.00058 (J)	0.0011 (J)	0.00055 (J)	0.00075 (J)			
6/28/2017							0.0011 (J)	0.00068 (J)	0.00094 (J)
3/27/2018	<0.001	<0.001	<0.001	<0.0013	<0.001	<0.001			
3/28/2018							0.0015	<0.001	<0.0013
6/6/2018	<0.001								
6/7/2018		<0.001	<0.001	<0.0013	<0.001	<0.001			<0.0013
6/8/2018							0.002	<0.001	
10/8/2018	0.0007 (J)	0.00069 (J)	0.0007 (J)		0.00054 (J)	0.00075 (J)			
10/9/2018								0.00058 (J)	
10/16/2018				<0.0013					
10/18/2018							0.0031		<0.0013
2/20/2019	<0.001	<0.001	<0.001	0.00075 (J)	<0.001	<0.001	0.003	<0.001	<0.0013
4/1/2019	0.0012 (J)	0.0014	0.0012 (J)	0.0016					
4/2/2019					<0.001	<0.001	0.0027	<0.001	<0.0013
9/16/2019	<0.001								
9/17/2019		<0.001	<0.001	0.0008 (J)	<0.001	<0.001	0.0029	<0.001	0.00037 (J)
2/18/2020									0.00032 (J)
2/19/2020	0.00032 (J)	<0.001	<0.001	0.001	<0.001	<0.001		<0.001	
2/20/2020							0.0031		
3/23/2020								<0.001	0.0005 (J)
3/24/2020						<0.001			
3/26/2020	0.00032 (J)						0.0047		
3/27/2020		<0.001	0.0014	0.0016	<0.001				
9/14/2020	<0.001	<0.001							
9/15/2020			<0.001	0.0014	<0.001	<0.001	0.0045	<0.001	0.00051 (J)
2/9/2021	<0.001	<0.001	<0.001	0.0013	<0.001				
2/10/2021						0.00038 (J)	0.0033	<0.001	0.00059 (J)
3/30/2021							0.0028	<0.001	0.00049 (J)
3/31/2021				0.0012					
4/1/2021					0.00033 (J)	<0.001			
4/6/2021			<0.001						
4/7/2021	<0.001	<0.001							
8/18/2021						<0.001	0.0028		
8/19/2021		<0.001	<0.001	0.0014	<0.001			<0.001	0.00066 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.001								
2/10/2022	<0.001				<0.001		0.0043		
2/11/2022		<0.001		0.0021		<0.001		<0.001	0.00081 (J)
2/14/2022			<0.001						
8/18/2022	<0.001	<0.001							
8/19/2022			<0.001	0.00066 (J)					
8/22/2022								<0.001	0.00042 (J)
8/23/2022							0.0021		
8/31/2022					<0.001	<0.001			
2/22/2023						<0.001	0.0015	<0.001	0.00046 (J)
2/23/2023	<0.001	<0.001	<0.001	0.0012	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.001	<0.001	<0.001	<0.001		
5/12/2016	<0.001	<0.001	<0.001						
6/27/2016				<0.001	0.0009 (J)	<0.001			
6/29/2016	<0.001	<0.001	<0.001				0.0009 (J)		
8/17/2016				<0.001	0.0006 (J)	<0.001			
8/19/2016		<0.001	<0.001						
8/22/2016	<0.001						<0.001		
10/17/2016				<0.001		<0.001			
10/18/2016	<0.001	<0.001	<0.001		<0.001		0.00074 (J)		
12/6/2016				<0.001	<0.001	<0.001			
12/7/2016	<0.001	<0.001	<0.001				0.00079 (J)		
2/14/2017				0.0006 (J)	0.00059 (J)	0.0005 (J)			
2/15/2017			<0.001						
2/16/2017	<0.001	<0.001					0.00056 (J)		
4/12/2017				0.00046 (J)	0.00058 (J)	<0.001			
4/13/2017	<0.001	0.0006 (J)	0.00061 (J)				0.00079 (J)		
6/27/2017				<0.001	<0.001	0.00076 (J)	0.0011 (J)		
6/28/2017	0.00076 (J)	0.00089 (J)	0.00079 (J)						
3/27/2018			<0.001	<0.001	<0.001	<0.001			
3/28/2018	<0.001	<0.001					<0.001		
6/6/2018				<0.001	<0.001	<0.001	<0.001		
6/7/2018	<0.001	<0.001	<0.001						
10/8/2018	<0.001	<0.001	<0.001	<0.001					
10/9/2018					0.00057 (J)	0.00053 (J)	0.00068 (J)		
10/18/2018								<0.001	<0.001
2/19/2019		<0.001	<0.001						
2/20/2019	<0.001			<0.001	<0.001	<0.001	<0.001		
4/1/2019					<0.001	0.001 (J)	<0.001		
4/2/2019	<0.001	<0.001	<0.001	<0.001					
9/16/2019				<0.001			<0.001		
9/17/2019	<0.001				<0.001	0.00035 (J)			
9/18/2019		0.00035 (J)	<0.001						
2/18/2020	<0.001	0.00034 (J)	<0.001	<0.001	<0.001	<0.001			
2/19/2020							0.00039 (J)		
3/23/2020	<0.001								
3/24/2020		<0.001	<0.001						
3/25/2020				0.00044 (J)		0.00063 (J)	<0.001		
3/26/2020					<0.001				
9/14/2020				<0.001	<0.001	<0.001	<0.001		
9/15/2020	<0.001	<0.001	<0.001						
2/9/2021				<0.001	<0.001	<0.001	<0.001		
2/10/2021	<0.001	<0.001	<0.001						
3/30/2021	<0.001								
3/31/2021		<0.001	<0.001				0.00033 (J)		
4/1/2021				<0.001	0.00044 (J)	<0.001			
8/18/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
8/19/2021							<0.001		
2/9/2022				<0.001	<0.001			<0.001	<0.001
2/10/2022		0.00031 (J)	<0.001			<0.001	<0.001		
2/11/2022	<0.001								
8/18/2022					<0.001	<0.001	<0.001		
8/19/2022				<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	<0.001	0.00044 (J)	<0.001						
8/24/2022								<0.001	<0.001
2/22/2023				<0.001	<0.001	<0.001	<0.001		
2/23/2023	<0.001	<0.001	<0.001					<0.001	
2/24/2023									<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				<0.001				
10/17/2018	0.0019							
10/18/2018					<0.001	<0.001	<0.001	
2/8/2022		<0.001	<0.001					
2/9/2022	<0.001			<0.001	<0.001		<0.001	
2/10/2022						<0.001		0.00059 (J)
8/22/2022							0.00049 (J)	
8/23/2022	0.00028 (J)	<0.001				<0.001		
8/24/2022			<0.001	<0.001	<0.001			0.00074 (J)
2/23/2023		<0.001	<0.001		<0.001		<0.001	
2/24/2023	<0.001					<0.001		0.0007 (J)
2/28/2023				<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	0.0663	0.0409	0.0214	0.0253	0.036		0.0112		
5/11/2016						0.0484		0.0294	0.038
6/23/2016	0.055	0.0342	0.0204				0.0101		
6/24/2016					0.0343	0.0471			
6/27/2016				0.0253					
6/28/2016								0.0293	0.0363
8/16/2016	0.048	0.034	0.018		0.029		0.0088		
8/17/2016				0.021		0.046		0.029	0.033
10/13/2016	0.061		0.022						
10/14/2016		0.041		0.023	0.034		0.01		
10/17/2016						0.049		0.027	0.035
12/5/2016			0.023						
12/6/2016	0.053	0.042		0.02	0.033	0.047	0.011	0.03	0.035
2/14/2017	0.046	0.035	0.021	0.018	0.032	0.05	0.01		
2/15/2017								0.025	0.036
4/10/2017			0.021						
4/11/2017	0.046	0.037		0.021	0.033	0.053	0.01		
4/12/2017								0.028	0.038
6/26/2017	0.048	0.037	0.022		0.036	0.058	0.011		
6/27/2017				0.024				0.034	0.042
3/26/2018	0.053	0.036	0.022		0.035				
3/27/2018				0.024		0.061	0.01	0.031	0.039
6/5/2018	0.058	0.038	0.022	0.024			0.011		
6/6/2018					0.036	0.058		0.027	0.041
10/5/2018	0.058	0.036	0.024		0.035				
10/8/2018				0.024		0.064	0.011		
10/9/2018								0.032	
10/16/2018									0.037
2/18/2019	0.046	0.035				0.057			
2/19/2019			0.019	0.022	0.033		0.0094		
2/20/2019								0.036	0.044
3/28/2019				0.022	0.036	0.061	0.0097		
3/29/2019	0.044	0.039	0.021						
4/1/2019								0.039	0.041
9/12/2019							0.012		
9/13/2019			0.025						
9/16/2019	0.048	0.045		0.028	0.041	0.068			0.045
9/17/2019								0.029	
2/13/2020	0.042	0.043	0.025						
2/17/2020				0.026			0.01		
2/18/2020					0.04	0.069			0.044
2/19/2020								0.027	
3/17/2020		0.039		0.025	0.037		0.01		
3/18/2020	0.046		0.023			0.071			
3/25/2020								0.036	0.046
9/14/2020	0.043	0.038	0.024	0.026	0.039	0.068	0.011	0.027	0.042
2/9/2021	0.043	0.037	0.023	0.025	0.035	0.065	0.01	0.028	0.043
3/30/2021	0.047	0.039	0.022						
3/31/2021					0.041	0.068	0.011	0.036	
4/7/2021				0.026					0.046
8/17/2021	0.047	0.038		0.027		0.066			
8/18/2021			0.025		0.036		0.011		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								0.025	0.045
2/9/2022	0.044	0.039		0.026	0.041	0.069	0.011		
2/10/2022			0.025						0.045
2/11/2022								0.025	
8/17/2022	0.046	0.04							
8/18/2022			0.023	0.022	0.035	0.071	0.011		0.044
8/19/2022								0.027	
2/21/2023	0.049				0.045		0.012		
2/22/2023		0.038				0.078		0.038	0.044
2/23/2023			0.028	0.026					

Time Series

Constituent: Barium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	0.0324								
5/12/2016		0.0198	0.067	0.041	0.0163	0.0157			0.0436
5/13/2016							0.0138	0.0507	
6/28/2016	0.0321	0.0208	0.0668	0.0435	0.0165				
6/29/2016						0.0161 (J)		0.0485	0.0466
6/30/2016							0.0145 (J)		
8/18/2016	0.03	0.022	0.06	0.043	0.017	0.016			
8/22/2016							0.014	0.044	0.038
10/17/2016	0.032	0.024	0.06						
10/18/2016				0.041	0.017			0.042	0.039
10/19/2016						0.021 (D)	0.016		
12/6/2016	0.032	0.025							
12/7/2016			0.063	0.042	0.017	0.018	0.015		
12/8/2016								0.045	0.038
2/15/2017	0.036	0.026	0.061	0.038		0.02			
2/16/2017					0.017		0.013	0.04	0.034
4/12/2017	0.037	0.029	0.062	0.038					
4/13/2017					0.019	0.019	0.012	0.037	0.028
6/27/2017	0.042	0.031	0.06	0.041	0.02	0.019			
6/28/2017							0.012	0.04	0.03
3/27/2018	0.043	0.029	0.055	0.035	0.021	0.02			
3/28/2018							0.029	0.034	0.027
6/6/2018	0.048								
6/7/2018		0.032	0.057	0.035	0.022	0.02			0.029
6/8/2018							0.032	0.035	
10/8/2018	0.049	0.033	0.053		0.025	0.021			
10/9/2018								0.037	
10/16/2018				0.031					
10/18/2018							0.033		0.027
2/20/2019	0.054	0.041	0.053	0.036	0.027	0.023	0.034	0.036	0.03
4/1/2019	0.051	0.038	0.054	0.034					
4/2/2019					0.023	0.02	0.028	0.03	0.023
9/16/2019	0.052								
9/17/2019		0.036	0.048	0.034	0.029	0.025	0.026	0.035	0.025
2/18/2020									0.023
2/19/2020	0.053	0.033	0.047	0.031	0.029	0.022		0.034	
2/20/2020							0.023		
3/23/2020								0.032	0.024
3/24/2020						0.024			
3/26/2020	0.051						0.02		
3/27/2020		0.034	0.049	0.028	0.027				
9/14/2020	0.057	0.039							
9/15/2020			0.05	0.031	0.031	0.025	0.02	0.034	0.024
2/9/2021	0.058	0.036	0.046	0.029	0.03				
2/10/2021						0.023	0.016	0.031	0.023
3/30/2021							0.015	0.03	0.021
3/31/2021				0.028					
4/1/2021					0.029	0.022			
4/6/2021			0.048						
4/7/2021	0.058	0.037							
8/18/2021						0.024	0.022		
8/19/2021		0.036	0.042	0.027	0.029			0.027	0.02

Time Series

Constituent: Barium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	0.057								
2/10/2022	0.057				0.034		0.013		
2/11/2022		0.034		0.027		0.025		0.032	0.022
2/14/2022			0.047						
8/18/2022	0.056	0.036							
8/19/2022			0.048	0.025					
8/22/2022								0.023	0.021
8/23/2022							0.012		
8/31/2022					0.033	0.033			
2/22/2023						0.024	0.0098 (J)	0.022	0.018
2/23/2023	0.058	0.035	0.038	0.023	0.035				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				0.0933	0.295	0.251	0.0494		
5/12/2016	0.0914	0.1	0.0959						
6/27/2016				0.101	0.353	0.205			
6/29/2016	0.0933	0.0991	0.0957				0.0535		
8/17/2016				0.094	0.29	0.16			
8/19/2016		0.096	0.093						
8/22/2016	0.086						0.049		
10/17/2016				0.11		0.17			
10/18/2016	0.093	0.096	0.093		0.29		0.049		
12/6/2016				0.11	0.31	0.16			
12/7/2016	0.096	0.09	0.09				0.048		
2/14/2017				0.056	0.3	0.18			
2/15/2017			0.09						
2/16/2017	0.091	0.091					0.056		
4/12/2017				0.048	0.3	0.18			
4/13/2017	0.088	0.091	0.081				0.063		
6/27/2017				0.058	0.36	0.18	0.067		
6/28/2017	0.094	0.1	0.085						
3/27/2018			0.076	0.021	0.27	0.17			
3/28/2018	0.09	0.084					0.069		
6/6/2018				0.014	0.24	0.18	0.069		
6/7/2018	0.092	0.084	0.082						
10/8/2018	0.092	0.084	0.077	0.069					
10/9/2018					0.28	0.17	0.077		
10/18/2018								0.059	0.12
2/19/2019		0.075	0.064						
2/20/2019	0.1			0.052	0.28	0.2	0.077		
4/1/2019					0.24	0.19	0.071		
4/2/2019	0.087	0.076	0.068	0.069					
9/16/2019				0.13			0.077		
9/17/2019	0.097				0.23	0.19			
9/18/2019		0.078	0.068						
2/18/2020	0.11	0.085	0.065	0.083	0.25	0.17			
2/19/2020							0.065		
3/23/2020	0.1								
3/24/2020		0.081	0.065						
3/25/2020				0.12		0.19	0.066		
3/26/2020					0.23				
9/14/2020				0.14	0.27	0.18	0.059		
9/15/2020	0.13	0.083	0.064						
2/9/2021				0.12	0.26	0.18	0.054		
2/10/2021	0.12	0.078	0.066						
3/30/2021	0.12								
3/31/2021		0.072	0.059				0.061		
4/1/2021				0.12	0.26	0.17			
8/18/2021	0.12	0.074	0.056	0.13	0.24	0.16			
8/19/2021							0.043		
2/9/2022				0.13	0.21			0.026	0.085
2/10/2022		0.07	0.064			0.18	0.047		
2/11/2022	0.11								
8/18/2022					0.2	0.16	0.05		
8/19/2022				0.15					

Time Series

Constituent: Barium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	0.1	0.075	0.056						
8/24/2022								0.025	0.07
2/22/2023				0.12	0.22	0.13	0.044		
2/23/2023	0.1	0.082	0.06					0.026	
2/24/2023									0.076

Time Series

Constituent: Barium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				0.014				
10/17/2018	0.02							
10/18/2018					0.055	0.089	0.1	
2/8/2022		0.033	0.049					
2/9/2022	0.04			0.0078 (J)	0.06		0.056	
2/10/2022						0.042		0.14
8/22/2022							0.052	
8/23/2022	0.039	0.034				0.055		
8/24/2022			0.046	0.0079 (J)	0.058			0.13
2/23/2023		0.036	0.049		0.062		0.052	
2/24/2023	0.045					0.039		0.16
2/28/2023				0.008 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025		
5/11/2016						<0.0025		<0.0025	<0.0025
6/23/2016	0.0002 (J)	<0.0025	<0.0025				<0.0025		
6/24/2016					<0.0025	<0.0025			
6/27/2016				<0.0025					
6/28/2016								<0.0025	<0.0025
8/16/2016	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025		
8/17/2016				<0.0025		<0.0025		<0.0025	<0.0025
10/13/2016	<0.0025		<0.0025						
10/14/2016		<0.0025		<0.0025	<0.0025		<0.0025		
10/17/2016						<0.0025		<0.0025	<0.0025
12/5/2016			<0.0025						
12/6/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/15/2017								<0.0025	<0.0025
4/10/2017			<0.0025						
4/11/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025		
4/12/2017								<0.0025	<0.0025
6/26/2017	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025		
6/27/2017				<0.0025				<0.0025	<0.0025
3/26/2018	<0.0025	<0.0025	<0.0025		<0.0025				
3/27/2018				<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/5/2018	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025		
6/6/2018					<0.0025	<0.0025		<0.0025	<0.0025
10/5/2018	<0.0025	<0.0025	<0.0025		<0.0025				
10/8/2018				<0.0025		<0.0025	<0.0025		
10/9/2018								<0.0025	
10/16/2018									<0.0025
2/18/2019	<0.0025	<0.0025				<0.0025			
2/19/2019			<0.0025	<0.0025	<0.0025		<0.0025		
2/20/2019								<0.0025	<0.0025
3/28/2019				<0.0025	<0.0025	<0.0025	<0.0025		
3/29/2019	<0.0025	<0.0025	<0.0025						
4/1/2019								<0.0025	<0.0025
9/12/2019							<0.0025		
9/13/2019			<0.0025						
9/16/2019	0.00028 (J)	<0.0025		<0.0025	<0.0025	<0.0025			<0.0025
9/17/2019								<0.0025	
2/13/2020	0.00031 (J)	<0.0025	<0.0025						
2/17/2020				<0.0025			<0.0025		
2/18/2020					<0.0025	<0.0025			<0.0025
2/19/2020								0.00026 (J)	
3/17/2020		<0.0025		<0.0025	<0.0025		<0.0025		
3/18/2020	0.00029 (J)		<0.0025			0.00018 (J)			
3/25/2020								<0.0025	<0.0025
9/14/2020	0.00051 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/30/2021	0.00025 (J)	<0.0025	<0.0025						
3/31/2021					<0.0025	<0.0025	<0.0025	<0.0025	
4/7/2021				<0.0025					<0.0025
8/17/2021	0.00029 (J)	<0.0025		<0.0025		<0.0025			
8/18/2021			<0.0025		<0.0025		<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								<0.0025	<0.0025
2/9/2022	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025		
2/10/2022			<0.0025						<0.0025
2/11/2022								<0.0025	
8/17/2022	0.00027 (J)	<0.0025							
8/18/2022			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
8/19/2022								<0.0025	
2/21/2023	0.00036 (J)				<0.0025		<0.0025		
2/22/2023		<0.0025				<0.0025		<0.0025	<0.0025
2/23/2023			<0.0025	<0.0025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.0025								
5/12/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			0.000742 (J)
5/13/2016							<0.0025	<0.0025	
6/28/2016	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025				
6/29/2016						<0.0025		0.0002 (J)	0.0007 (J)
6/30/2016							0.0003 (J)		
8/18/2016	<0.0025	<0.0025	<0.0025	0.00037 (J)	<0.0025	<0.0025			
8/22/2016							<0.0025	<0.0025	0.00074 (J)
10/17/2016	<0.0025	<0.0025	<0.0025						
10/18/2016				<0.0025	<0.0025			<0.0025	0.00075 (J)
10/19/2016						<0.0025	<0.0025		
12/6/2016	<0.0025	<0.0025							
12/7/2016			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
12/8/2016								<0.0025	0.00093 (J)
2/15/2017	<0.0025	<0.0025	<0.0025	0.00037 (J)		<0.0025			
2/16/2017					<0.0025		<0.0025	<0.0025	0.00091 (J)
4/12/2017	<0.0025	<0.0025	<0.0025	0.00035 (J)					
4/13/2017					<0.0025	<0.0025	<0.0025	<0.0025	0.00065 (J)
6/27/2017	<0.0025	<0.0025	<0.0025	0.0004 (J)	<0.0025	<0.0025			
6/28/2017							<0.0025	<0.0025	0.00073 (J)
3/27/2018	<0.0025	<0.0025	<0.0025	0.00041 (J)	<0.0025	<0.0025			
3/28/2018							0.00036 (J)	<0.0025	0.00079 (J)
6/6/2018	<0.0025								
6/7/2018		<0.0025	<0.0025	0.00038 (J)	<0.0025	<0.0025			0.00086 (J)
6/8/2018							0.00035 (J)	<0.0025	
10/8/2018	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025			
10/9/2018								<0.0025	
10/16/2018				0.0004 (J)					
10/18/2018							<0.0025		0.00079 (J)
2/20/2019	<0.0025	<0.0025	<0.0025	0.00042 (J)	<0.0025	<0.0025	0.00033 (J)	0.00016 (J)	0.00077 (J)
4/1/2019	<0.0025	<0.0025	<0.0025	0.00034 (J)					
4/2/2019					<0.0025	<0.0025	<0.0025	<0.0025	0.00043 (J)
9/16/2019	<0.0025								
9/17/2019		<0.0025	<0.0025	0.00046 (J)	<0.0025	<0.0025	0.00035 (J)	<0.0025	0.00057 (J)
2/18/2020									0.00052 (J)
2/19/2020	<0.0025	<0.0025	<0.0025	0.00045 (J)	<0.0025	<0.0025		<0.0025	
2/20/2020							0.00049 (J)		
3/23/2020								<0.0025	0.00077 (J)
3/24/2020						<0.0025			
3/26/2020	<0.0025						0.00033 (J)		
3/27/2020		<0.0025	0.00053 (J)	0.00059 (J)	<0.0025				
9/14/2020	<0.0025	<0.0025							
9/15/2020			0.0002 (J)	0.00053 (J)	<0.0025	<0.0025	0.0003 (J)	0.00018 (J)	0.00078 (J)
2/9/2021	<0.0025	<0.0025	<0.0025	0.00044 (J)	<0.0025				
2/10/2021						0.00028 (J)	0.00036 (J)	0.00019 (J)	0.0009 (J)
3/30/2021							0.00025 (J)	0.00018 (J)	0.00058 (J)
3/31/2021				0.00045 (J)					
4/1/2021					<0.0025	<0.0025			
4/6/2021			<0.0025						
4/7/2021	<0.0025	<0.0025							
8/18/2021						<0.0025	0.00035 (J)		
8/19/2021		<0.0025	<0.0025	0.00033 (J)	<0.0025			<0.0025	0.00091 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.0025								
2/10/2022	<0.0025				<0.0025		<0.0025		
2/11/2022		<0.0025		0.0004 (J)		<0.0025		<0.0025	0.00074 (J)
2/14/2022			<0.0025						
8/18/2022	<0.0025	<0.0025							
8/19/2022			<0.0025	0.00039 (J)					
8/22/2022								<0.0025	0.00062 (J)
8/23/2022							<0.0025		
8/31/2022					<0.0025	<0.0025			
2/22/2023						<0.0025	<0.0025	<0.0025	0.00044 (J)
2/23/2023	<0.0025	<0.0025	<0.0025	0.00038 (J)	<0.0025				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.0025	<0.0025	<0.0025	<0.0025		
5/12/2016	<0.0025	<0.0025	<0.0025						
6/27/2016				<0.0025	<0.0025	<0.0025			
6/29/2016	<0.0025	<0.0025	<0.0025				<0.0025		
8/17/2016				<0.0025	<0.0025	<0.0025			
8/19/2016		<0.0025	<0.0025						
8/22/2016	<0.0025						<0.0025		
10/17/2016				<0.0025		<0.0025			
10/18/2016	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025		
12/6/2016				<0.0025	<0.0025	<0.0025			
12/7/2016	<0.0025	<0.0025	<0.0025				<0.0025		
2/14/2017				<0.0025	<0.0025	<0.0025			
2/15/2017			<0.0025						
2/16/2017	<0.0025	<0.0025					<0.0025		
4/12/2017				<0.0025	<0.0025	<0.0025			
4/13/2017	<0.0025	<0.0025	<0.0025				<0.0025		
6/27/2017				<0.0025	<0.0025	<0.0025	<0.0025		
6/28/2017	<0.0025	<0.0025	<0.0025						
3/27/2018			<0.0025	<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025	<0.0025					<0.0025		
6/6/2018				<0.0025	<0.0025	<0.0025	<0.0025		
6/7/2018	<0.0025	<0.0025	<0.0025						
10/8/2018	<0.0025	<0.0025	<0.0025	<0.0025					
10/9/2018					<0.0025	<0.0025	<0.0025		
10/18/2018								<0.0025	<0.0025
2/19/2019		<0.0025	<0.0025						
2/20/2019	<0.0025			<0.0025	<0.0025	<0.0025	<0.0025		
4/1/2019					<0.0025	<0.0025	<0.0025		
4/2/2019	<0.0025	<0.0025	<0.0025	<0.0025					
9/16/2019				<0.0025			<0.0025		
9/17/2019	<0.0025				<0.0025	0.00019 (J)			
9/18/2019		<0.0025	<0.0025						
2/18/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/19/2020							<0.0025		
3/23/2020	<0.0025								
3/24/2020		<0.0025	<0.0025						
3/25/2020				0.0002 (J)		0.0003 (J)	<0.0025		
3/26/2020					<0.0025				
9/14/2020				<0.0025	<0.0025	<0.0025	<0.0025		
9/15/2020	<0.0025	0.00033 (J)	<0.0025						
2/9/2021				<0.0025	<0.0025	<0.0025	<0.0025		
2/10/2021	<0.0025	<0.0025	<0.0025						
3/30/2021	<0.0025								
3/31/2021		<0.0025	<0.0025				<0.0025		
4/1/2021				<0.0025	<0.0025	<0.0025			
8/18/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
8/19/2021							<0.0025		
2/9/2022				<0.0025	<0.0025			<0.0025	<0.0025
2/10/2022		<0.0025	<0.0025			<0.0025	<0.0025		
2/11/2022	<0.0025								
8/18/2022					<0.0025	<0.0025	<0.0025		
8/19/2022				<0.0025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	<0.0025	<0.0025	<0.0025						
8/24/2022								<0.0025	<0.0025
2/22/2023				<0.0025	<0.0025	<0.0025	<0.0025		
2/23/2023	<0.0025	<0.0025	<0.0025					<0.0025	
2/24/2023									<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				<0.0025				
10/17/2018	<0.0025							
10/18/2018					<0.0025	<0.0025	<0.0025	
2/8/2022		<0.0025	<0.0025					
2/9/2022	<0.0025			<0.0025	<0.0025		<0.0025	
2/10/2022						<0.0025		<0.0025
8/22/2022							<0.0025	
8/23/2022	<0.0025	<0.0025				<0.0025		
8/24/2022			<0.0025	<0.0025	<0.0025			<0.0025
2/23/2023		<0.0025	<0.0025		<0.0025		<0.0025	
2/24/2023	<0.0025					<0.0025		<0.0025
2/28/2023				<0.0025				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.08	<0.08	<0.08	<0.08	<0.08		<0.08		
5/11/2016						<0.08		0.0275 (J)	0.242
6/23/2016	<0.08	<0.08	<0.08				<0.08		
6/24/2016					0.0109 (J)	0.0067 (J)			
6/27/2016				0.0052 (J)					
6/28/2016								0.035 (J)	0.245
8/16/2016	<0.08	<0.08	<0.08		<0.08		<0.08		
8/17/2016				<0.08		<0.08		0.028 (J)	0.26
10/13/2016	<0.08		<0.08						
10/14/2016		<0.08		<0.08	<0.08		<0.08		
10/17/2016						<0.08		0.032 (J)	0.25
12/5/2016			<0.08						
12/6/2016	<0.08	<0.08		<0.08	<0.08	<0.08	<0.08	<0.05	0.27
2/14/2017	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		
2/15/2017								0.035 (J)	0.28
4/10/2017			<0.08						
4/11/2017	<0.08	<0.08		<0.08	<0.08	<0.08	<0.08		
4/12/2017								0.052	0.29
6/26/2017	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08		
6/27/2017				<0.08				<0.05	0.29
10/10/2017	<0.08	<0.08	<0.08						
10/11/2017				<0.08	<0.08	<0.08	<0.08		0.31
10/12/2017								0.049 (J)	
6/5/2018	<0.08	<0.08	<0.08	<0.08			<0.08		
6/6/2018					<0.08	<0.08		0.07	0.37
10/16/2018									0.35
12/13/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		
12/17/2018								0.098	
3/28/2019				<0.08	<0.08	<0.08	<0.08		
3/29/2019	<0.08	<0.08	<0.08						
4/1/2019								0.16	0.46
9/12/2019							<0.08		
9/13/2019			<0.08						
9/16/2019	0.13	0.089		<0.08	0.05	<0.08			0.39
9/17/2019								0.077	
3/17/2020		<0.08		<0.08	<0.08		<0.08		
3/18/2020	<0.08		<0.08			<0.08			
3/25/2020								0.12	0.45
9/14/2020	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.082	0.43
3/30/2021	0.041 (J)	0.045 (J)	0.072 (J)						
3/31/2021					<0.08	<0.08	<0.08	0.15	
4/7/2021				<0.08					0.68
8/17/2021	<0.08	<0.08		<0.08		<0.08			
8/18/2021			<0.08		<0.08		<0.08		
8/19/2021								0.091	0.54
2/9/2022	<0.08	<0.08		<0.08	<0.08	<0.08	<0.08		
2/10/2022			<0.08						0.53
2/11/2022								0.09	
8/17/2022	<0.08	<0.08							
8/18/2022			<0.08	<0.08	0.072 (J)	<0.08	<0.08		0.57
8/19/2022								0.083	
2/21/2023	<0.08				<0.08		<0.08		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/22/2023		<0.08				<0.08		0.28	0.75
2/23/2023			0.18	0.1					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.08								
5/12/2016		0.599	1.38	1.57	0.562	0.195			1.99
5/13/2016							3.71	1.87	
6/28/2016	0.0054 (J)	0.52	1.29	1.36	0.546				
6/29/2016						0.198 (J)		1.67	1.88
6/30/2016							3.8		
8/18/2016	<0.08	0.51	1.3	1.5	0.54	0.24			
8/22/2016							3.3	1.7	2
10/17/2016	<0.08	0.58	1.6						
10/18/2016				1.9	0.55			2.1	2.5
10/19/2016						0.37	4.5		
12/6/2016	<0.08	0.5							
12/7/2016			1.5	1.5	0.56	0.4	4.8		
12/8/2016								1.7	1.9
2/15/2017	<0.08	0.5	1.5	1.5		0.38			
2/16/2017					0.58		3.9	2.3	2.3
4/12/2017	<0.08	0.47	1.4	1.7					
4/13/2017					0.56	0.34	3.8	1.9	2
6/27/2017	<0.08	0.51	1.6	1.7	0.56	0.33			
6/28/2017							3.6	1.9	2.3
10/11/2017	<0.08	0.49	1.5						
10/12/2017				1.6	0.57	0.47	3.9	1.9	2.6
6/6/2018	<0.08								
6/7/2018		0.45	1.6	1.7	0.59	0.35			2.1
6/8/2018							4.3	1.8	
10/16/2018				1.5					
10/18/2018							4.9		2.3
12/14/2018	<0.08	0.47	1.4			0.44			
12/17/2018					0.55			1.8	
4/1/2019	<0.08	0.57	1.7	1.6					
4/2/2019					0.53	0.32	5.3	2	2
9/16/2019	<0.08								
9/17/2019		0.43	1.4	1.4	0.55	0.43	5	1.8	1.8
3/23/2020								1.7	1.9
3/24/2020						0.37			
3/26/2020	<0.08						6		
3/27/2020		0.49	1.5	1.4	0.59				
9/14/2020	<0.08	0.49							
9/15/2020			1.5	1.4	0.57	0.38	6.2	1.9	1.8
3/30/2021							6.4	1.9	1.6
3/31/2021				1.4					
4/1/2021					0.55	0.31			
4/6/2021			1.6						
4/7/2021	<0.08	0.59							
8/18/2021						0.32	6.6		
8/19/2021		0.59	1.7	1.6	0.72			2.1	1.9
8/20/2021	0.043 (J)								
2/10/2022	<0.08				0.63		6.4		
2/11/2022		0.48		1.2		0.27		1.7	1.5
2/14/2022			1.5						
8/18/2022	0.061 (J)	0.55							
8/19/2022			1.4	1.3					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/22/2022								1.7	1.6
8/23/2022							6.8		
8/31/2022					0.67	0.31			
2/22/2023						0.34	8.1	2	1.7
2/23/2023	0.079 (J)	0.69	1.7	2.2	0.87				

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.08	0.0359 (J)	0.0678 (J)	1.54		
5/12/2016	1.4	0.411	0.691						
6/27/2016				0.0051 (J)	0.0354 (J)	0.0767 (J)			
6/29/2016	1.25	0.373 (J)	0.557				1.52		
8/17/2016				<0.08	0.039 (J)	0.067			
8/19/2016		0.37	0.58						
8/22/2016	1.3						1.6		
10/17/2016				<0.08		0.059			
10/18/2016	1.7	0.41	0.68		0.039 (J)		2.4		
12/6/2016				<0.08	0.03 (J)	0.054			
12/7/2016	1.3	0.36	0.6				1.6		
2/14/2017				<0.08	0.031 (J)	0.063			
2/15/2017			0.82						
2/16/2017	1.4	0.38 (J)					1.6		
4/12/2017				<0.08	0.039 (J)	0.068			
4/13/2017	1.4	0.4	0.54				1.7		
6/27/2017				<0.08	0.028 (J)	0.067	1.8		
6/28/2017	1.4	0.35	0.59						
10/11/2017				<0.08	0.026 (J)				
10/12/2017	1.4	0.4	0.54			0.075	1.8		
6/6/2018				<0.08	<0.08	0.059	1.8		
6/7/2018	1.4	0.41	0.71						
10/18/2018								3.5	0.82
12/14/2018				<0.08	<0.08	0.064			
12/17/2018	1.2	0.4	0.6				1.6		
4/1/2019					0.025 (J)	0.076	1.7		
4/2/2019	1.2	0.44	0.52	<0.08					
9/16/2019				0.04 (J)			1.6		
9/17/2019	1.1				<0.08	0.11			
9/18/2019		0.52	0.54						
2/13/2020								3.4	
3/23/2020	0.83								
3/24/2020		0.34	0.55						
3/25/2020				<0.08		0.089	1.6		
3/26/2020					0.055 (J)				
9/14/2020				<0.08	<0.08	0.1	1.7		
9/15/2020	1.2	0.5	0.38						
3/30/2021	1.1								
3/31/2021		0.47	0.51				1.5		
4/1/2021				<0.08	0.069 (J)	0.14			
4/5/2021								3.2	
8/18/2021	1.1	0.44	0.42	<0.08	0.047 (J)	0.14			
8/19/2021							1.5	2.2	
2/9/2022				<0.08	<0.08			3.2	0.9
2/10/2022		0.54	0.45			0.16	1.3		
2/11/2022	1								
8/18/2022					0.1	0.14	1.4		
8/19/2022				<0.08					
8/22/2022	1.2	0.57	0.46						
8/24/2022								3.2	1.1
2/22/2023				<0.08	0.064 (J)	0.11	1.6		
2/23/2023	1.3	0.63	0.81					3.8	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
2/24/2023									1.1

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				<0.08				
10/17/2018	<0.08							
10/18/2018					0.067	3.8	2.6	
2/8/2022		<0.08	<0.08					
2/9/2022	<0.08			<0.08	0.16		2.7	
2/10/2022						4.1		0.44
8/22/2022							2.7	
8/23/2022	<0.08	<0.08				4.8		
8/24/2022			<0.08	0.083	0.2			0.43
2/23/2023		<0.08	<0.08		0.2		3	
2/24/2023	0.51					4.2		0.76
2/28/2023				<0.08				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	0.000156 (J)	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025		
5/11/2016						<0.0025		<0.0025	<0.0025
6/23/2016	<0.0025	<0.0025	<0.0025				<0.0025		
6/24/2016					<0.0025	<0.0025			
6/27/2016				<0.0025					
6/28/2016								<0.0025	<0.0025
8/16/2016	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025		
8/17/2016				<0.0025		<0.0025		<0.0025	<0.0025
10/13/2016	<0.0025		<0.0025						
10/14/2016		<0.0025		<0.0025	<0.0025		<0.0025		
10/17/2016						<0.0025		<0.0025	<0.0025
12/5/2016			<0.0025						
12/6/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/15/2017								<0.0025	<0.0025
4/10/2017			<0.0025						
4/11/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	0.0011 (J)		
4/12/2017								<0.0025	<0.0025
6/26/2017	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025		
6/27/2017				<0.0025				<0.0025	<0.0025
3/26/2018	<0.0025	<0.0025	<0.0025		<0.0025				
3/27/2018				<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
10/5/2018	<0.0025	<0.0025	<0.0025		<0.0025				
10/8/2018				<0.0025		<0.0025	<0.0025		
10/9/2018								<0.0025	
10/16/2018									<0.0025
2/18/2019	<0.0025	<0.0025				<0.0025			
2/19/2019			<0.0025	<0.0025	<0.0025		<0.0025		
2/20/2019								<0.0025	<0.0025
3/28/2019				<0.0025	<0.0025	<0.0025	<0.0025		
3/29/2019	<0.0025	<0.0025	<0.0025						
4/1/2019								<0.0025	<0.0025
9/12/2019							<0.0025		
9/13/2019			<0.0025						
9/16/2019	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025			<0.0025
9/17/2019								<0.0025	
2/13/2020	<0.0025	<0.0025	<0.0025						
2/17/2020				<0.0025			<0.0025		
2/18/2020					<0.0025	<0.0025			<0.0025
2/19/2020								<0.0025	
3/17/2020		<0.0025		<0.0025	<0.0025		<0.0025		
3/18/2020	<0.0025		<0.0025			<0.0025			
3/25/2020								<0.0025	<0.0025
9/14/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/30/2021	<0.0025	<0.0025	<0.0025						
3/31/2021					<0.0025	<0.0025	<0.0025	<0.0025	
4/7/2021				<0.0025					<0.0025
8/17/2021	<0.0025	<0.0025		<0.0025		<0.0025			
8/18/2021			<0.0025		<0.0025		<0.0025		
8/19/2021								<0.0025	0.00022 (J)
2/9/2022	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/10/2022			<0.0025						<0.0025
2/11/2022								<0.0025	
8/17/2022	<0.0025	<0.0025							
8/18/2022			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
8/19/2022								<0.0025	
2/21/2023	<0.0025				<0.0025		<0.0025		
2/22/2023		<0.0025				<0.0025		<0.0025	<0.0025
2/23/2023			<0.0025	<0.0025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.0025								
5/12/2016		<0.0025	0.000136 (J)	0.000265 (J)	<0.0025	<0.0025			0.000108 (J)
5/13/2016							0.00016 (J)	<0.0025	
6/28/2016	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025				
6/29/2016						<0.0025		<0.0025	0.0001 (J)
6/30/2016							0.0002 (J)		
8/18/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
8/22/2016							<0.0025	<0.0025	<0.0025
10/17/2016	<0.0025	<0.0025	<0.0025						
10/18/2016				<0.0025	<0.0025			<0.0025	<0.0025
10/19/2016						<0.0025	<0.0025		
12/6/2016	<0.0025	<0.0025							
12/7/2016			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
12/8/2016								<0.0025	<0.0025
2/15/2017	<0.0025	<0.0025	<0.0025	0.00044 (J)		<0.0025			
2/16/2017					<0.0025		<0.0025	0.00036 (J)	<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	<0.0025					
4/13/2017					<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/28/2017							<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
3/28/2018							<0.0025	<0.0025	<0.0025
10/8/2018	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025			
10/9/2018								<0.0025	
10/16/2018				<0.0025					
10/18/2018							<0.0025		<0.0025
2/20/2019	<0.0025	<0.0025	<0.0025	0.00033 (J)	<0.0025	<0.0025	0.00023 (J)	<0.0025	<0.0025
4/1/2019	<0.0025	<0.0025	<0.0025	<0.0025					
4/2/2019					<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	<0.0025								
9/17/2019		<0.0025	<0.0025	0.00034 (J)	<0.0025	<0.0025	0.00018 (J)	<0.0025	<0.0025
2/18/2020									<0.0025
2/19/2020	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025	<0.0025		<0.0025	
2/20/2020							0.00032 (J)		
3/23/2020								<0.0025	<0.0025
3/24/2020						<0.0025			
3/26/2020	<0.0025						<0.0025		
3/27/2020		<0.0025	0.00057 (J)	0.00042 (J)	<0.0025				
9/14/2020	<0.0025	<0.0025							
9/15/2020			<0.0025	0.00032 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/9/2021	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025				
2/10/2021						<0.0025	0.00035 (J)	<0.0025	<0.0025
3/30/2021							<0.0025	<0.0025	<0.0025
3/31/2021				0.00027 (J)					
4/1/2021					<0.0025	<0.0025			
4/6/2021			<0.0025						
4/7/2021	<0.0025	<0.0025							
8/18/2021						<0.0025	<0.0025		
8/19/2021		<0.0025	<0.0025	0.00026 (J)	<0.0025			<0.0025	<0.0025
8/20/2021	<0.0025								
2/10/2022	<0.0025				<0.0025		<0.0025		
2/11/2022		<0.0025		0.00024 (J)		<0.0025		<0.0025	<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
2/14/2022			<0.0025						
8/18/2022	<0.0025	<0.0025							
8/19/2022			<0.0025	0.00024 (J)					
8/22/2022								<0.0025	<0.0025
8/23/2022							<0.0025		
8/31/2022					<0.0025	<0.0025			
2/22/2023						<0.0025	<0.0025	<0.0025	<0.0025
2/23/2023	<0.0025	<0.0025	<0.0025	0.00023 (J)	<0.0025				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.0025	<0.0025	<0.0025	<0.0025		
5/12/2016	<0.0025	<0.0025	<0.0025						
6/27/2016				<0.0025	<0.0025	<0.0025			
6/29/2016	<0.0025	<0.0025	<0.0025				<0.0025		
8/17/2016				<0.0025	<0.0025	<0.0025			
8/19/2016		<0.0025	<0.0025						
8/22/2016	<0.0025						<0.0025		
10/17/2016				<0.0025		<0.0025			
10/18/2016	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025		
12/6/2016				<0.0025	<0.0025	<0.0025			
12/7/2016	<0.0025	<0.0025	<0.0025				<0.0025		
2/14/2017				<0.0025	<0.0025	<0.0025			
2/15/2017			<0.0025						
2/16/2017	0.00039 (J)	<0.0025					<0.0025		
4/12/2017				<0.0025	<0.0025	<0.0025			
4/13/2017	<0.0025	<0.0025	<0.0025				<0.0025		
6/27/2017				<0.0025	<0.0025	<0.0025	<0.0025		
6/28/2017	<0.0025	<0.0025	<0.0025						
3/27/2018			<0.0025	<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025	<0.0025					<0.0025		
10/8/2018	<0.0025	<0.0025	<0.0025	<0.0025					
10/9/2018					<0.0025	<0.0025	<0.0025		
2/19/2019		<0.0025	<0.0025						
2/20/2019	<0.0025			<0.0025	<0.0025	<0.0025	<0.0025		
4/1/2019					<0.0025	<0.0025	<0.0025		
4/2/2019	<0.0025	<0.0025	<0.0025	<0.0025					
9/16/2019				<0.0025			<0.0025		
9/17/2019	<0.0025				<0.0025	<0.0025			
9/18/2019		<0.0025	<0.0025						
2/18/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/19/2020							<0.0025		
3/23/2020	<0.0025								
3/24/2020		<0.0025	<0.0025						
3/25/2020				0.00022 (J)		0.00031 (J)	<0.0025		
3/26/2020					<0.0025				
9/14/2020				<0.0025	<0.0025	<0.0025	<0.0025		
9/15/2020	<0.0025	<0.0025	<0.0025						
2/9/2021				<0.0025	<0.0025	<0.0025	<0.0025		
2/10/2021	<0.0025	<0.0025	<0.0025						
3/30/2021	<0.0025								
3/31/2021		<0.0025	<0.0025				<0.0025		
4/1/2021				<0.0025	<0.0025	<0.0025			
8/18/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
8/19/2021							<0.0025		
2/9/2022				<0.0025	<0.0025			<0.0025	<0.0025
2/10/2022		<0.0025	<0.0025			<0.0025	<0.0025		
2/11/2022	<0.0025								
8/18/2022					<0.0025	<0.0025	<0.0025		
8/19/2022				<0.0025					
8/22/2022	<0.0025	<0.0025	<0.0025						
8/24/2022								<0.0025	<0.0025
2/22/2023				<0.0025	<0.0025	<0.0025	<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
2/23/2023	<0.0025	<0.0025	<0.0025					<0.0025	
2/24/2023									<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
2/8/2022		<0.0025	<0.0025					
2/9/2022	<0.0025			<0.0025	<0.0025		<0.0025	
2/10/2022						<0.0025		<0.0025
8/22/2022							<0.0025	
8/23/2022	<0.0025	<0.0025				<0.0025		
8/24/2022			<0.0025	<0.0025	<0.0025			<0.0025
2/23/2023		<0.0025	<0.0025		<0.0025		<0.0025	
2/24/2023	<0.0025					<0.0025		<0.0025
2/28/2023				<0.0025				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	3	10.1	12.3	11.4	6.22		2.64		
5/11/2016						14.4		4.14	2.91
6/23/2016	2.42	8.45	11.3				1.65		
6/24/2016					5.55	14.2			
6/27/2016				9.16					
6/28/2016								3.13	2.19
8/16/2016	2.1	9.4	11		5		1.3		
8/17/2016				9.6		15		4.1	1.9
10/13/2016	2.7		12						
10/14/2016		10		11	5.4		1.4		
10/17/2016						16		4.2	2
12/5/2016			12						
12/6/2016	2.1	10		11	4.8	15	1.4	4.3	1.9
2/14/2017	1.8	11	13	12	4.6	17	1.4		
2/15/2017								1.5	1.9
4/10/2017			12						
4/11/2017	1.8	10		11	5	17	1.4		
4/12/2017								2.2	1.9
6/26/2017	1.7	10	13		4.9	18	1.5		
6/27/2017				9.5				3.1	1.9
10/10/2017	2.3	11	14						
10/11/2017				11	5.5	19	1.6		2
10/12/2017								1.2	
6/5/2018	2.6	11	13	9.7			1.5		
6/6/2018					4.1	18		1.2	1.8
10/16/2018									1.8
12/13/2018	1.7	10	12	9.4	4.3	18	1.4		
12/17/2018								4	
3/28/2019				8.7	4.8	17	1.4		
3/29/2019	2	11	12						
4/1/2019								4.2	1.7
9/12/2019							1.6		
9/13/2019			14						
9/16/2019	1.7	12		9.5	5.9	18			1.9
9/17/2019								0.79	
3/17/2020		11		8.8	5.3		1.7		
3/18/2020	1.8		14			18			
3/25/2020								2.9	2
9/14/2020	1.6	11	14	9.1	5.7	17	1.6	0.75	1.8
3/30/2021	2.2	12	15						
3/31/2021					5.5	17	1.6	2.3	
4/7/2021				9.5					1.9
8/17/2021	1.8	12		9.6		18			
8/18/2021			14		5.9		1.7		
8/19/2021								0.67	1.9
2/9/2022	1.8	11		9.3	6	18	1.8		
2/10/2022			15						1.9
2/11/2022								0.55	
8/17/2022	1.9	11							
8/18/2022			16	9.1	5.9	20	1.7		1.8
8/19/2022								0.78	
2/21/2023	2.2				6.4		1.8		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/22/2023		11				20		2.2	1.7
2/23/2023			17	9.6					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	23.1								
5/12/2016		16.6	37.7	14.5	0.75	34.8			13.2
5/13/2016							56.9	35.3	
6/28/2016	21	14.4	35.8	14.7	0.768				
6/29/2016						33.1		34.6	15.8
6/30/2016							46.4		
8/18/2016	20	15	37	15	0.7	35			
8/22/2016							48	38	15
10/17/2016	21	15	37						
10/18/2016				16	0.75			36	14
10/19/2016						38.5 (D)	51		
12/6/2016	21	14							
12/7/2016			38	15	0.73	39	50		
12/8/2016								36	11
2/15/2017	23	17	45	17		44			
2/16/2017					0.81		51	41	14
4/12/2017	23	16	39	14					
4/13/2017					0.88	45	35	39	17
6/27/2017	22	15	38	16	0.76	42			
6/28/2017							36	36	15
10/11/2017	23	16	44						
10/12/2017				17	1.1	48	43	39	17
6/6/2018	22								
6/7/2018		15	44	16	0.84	49			11
6/8/2018							90	37	
10/16/2018				16					
10/18/2018							100		12
12/14/2018	21	16	37			46			
12/17/2018					0.94			42	
4/1/2019	20	17	39	16					
4/2/2019					0.92	46	89	38	14
9/16/2019	23								
9/17/2019		17	38	17	1	51	87	44	14
3/23/2020								46	13
3/24/2020						58			
3/26/2020	22						81		
3/27/2020		18	41	17	1.5				
9/14/2020	22	19							
9/15/2020			40	17	1.1	54	74	47	14
3/30/2021							68	50	14
3/31/2021				17					
4/1/2021					1.2	57			
4/6/2021			42						
4/7/2021	23	19							
8/18/2021						55	55		
8/19/2021		20	40	17	1.1			45	12
8/20/2021	23								
2/10/2022	23				1.2		55		
2/11/2022		19		16		58		46	13
2/14/2022			41						
8/18/2022	22	21							
8/19/2022			39	17					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/22/2022								42	13
8/23/2022							52		
8/31/2022					1.2	58			
2/22/2023						56	41	38	14
2/23/2023	21	20	37	14	1.3				

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				8.7	27.2	47.6	53.1		
5/12/2016	28.7	21.9	27.6						
6/27/2016				7.48	27.9	47			
6/29/2016	27.9	21.8	25.6				52.6		
8/17/2016				8	23	45			
8/19/2016		22	29						
8/22/2016	30						57		
10/17/2016				8.6		47			
10/18/2016	30	23	32		24		53		
12/6/2016				8.2	23	45			
12/7/2016	29	23	30				47		
2/14/2017				7.2	24	49			
2/15/2017			32						
2/16/2017	31	27					55		
4/12/2017				6.7	25	50			
4/13/2017	32	27	31				56		
6/27/2017				6.2	23	50	53		
6/28/2017	29	25	27						
10/11/2017				6.5	22				
10/12/2017	31	27	31			51	55		
6/6/2018				4.2	19	51	54		
6/7/2018	29	26	25						
10/18/2018								120	44
12/14/2018				6.5	16	46			
12/17/2018	29	28	24				55		
4/1/2019					18	45	50		
4/2/2019	27	26	23	6.7					
9/16/2019				8.9			56		
9/17/2019	30				16	52			
9/18/2019		27	26						
3/23/2020	36								
3/24/2020		31	22						
3/25/2020				11		48	55		
3/26/2020					21				
9/14/2020				10	20	49	45		
9/15/2020	38	28	21						
3/30/2021	41								
3/31/2021		30	24				47		
4/1/2021				11	22	52			
8/18/2021	39	30	21	11	22	49			
8/19/2021							34		
2/9/2022				11	16			120	54
2/10/2022		27	23			53	37		
2/11/2022	36								
8/18/2022					15	50	44		
8/19/2022				12					
8/22/2022	36	28	22						
8/24/2022								120	54
2/22/2023				10	15	41	36		
2/23/2023	34	34	22					140	
2/24/2023									61

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				21				
10/17/2018	22							
10/18/2018					33	120	64	
2/8/2022		4	4.7					
2/9/2022	22			20	35		68	
2/10/2022						150		46
8/22/2022							64	
8/23/2022	24	4.6				150		
8/24/2022			5	21	35			47
2/23/2023		4.6	4.2		38		70	
2/24/2023	26					150		48
2/28/2023				21				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	1.9	1.51	1.94	2.77	3.45		1.98		
5/11/2016						1.93		9.53	8.87
6/23/2016	2.2	1.8	2.2				2.1		
6/24/2016					3.5	1.8			
6/27/2016				2.9					
6/28/2016								9.1	8.3
8/16/2016	2.1	1.5	2		3.4		1.8		
8/17/2016				2.4		1.4		9.4	8.6
10/13/2016	2		1.9						
10/14/2016		1.4		2.1	3.1		1.8		
10/17/2016						1.2		8.9	7.9
12/5/2016			1.9						
12/6/2016	2.2	1.5		1.7	3	1.3	1.8	8.9	7.9
2/14/2017	2	1.5	1.9	1.5	2.4	1.3	1.8		
2/15/2017								9	7.2
4/10/2017			1.8						
4/11/2017	1.8	1.3		1.7	2.5	1.2	1.7		
4/12/2017								8.5	7.5
6/26/2017	1.9	1.4	1.9		2.6	1.2	1.7		
6/27/2017				2.2				9.1	7.8
10/10/2017	1.8	1.3	1.8						
10/11/2017				1.7	2.4	1.1	1.6		7.4
10/12/2017								8.5	
6/5/2018	1.7	1.3	1.9	2			1.6		
6/6/2018					2	1.1		8.6	7.5
10/16/2018									7.8
12/13/2018	1.7	1.3	2	1.9	2	1.2	1.7		
12/17/2018								8.6	
3/28/2019				2.2	2	1.2	1.7		
3/29/2019	1.5	1.2	1.8						
4/1/2019								7.8	7.4
9/12/2019							1.5		
9/13/2019			1.7						
9/16/2019	1.8	1.3		1.9	2.2	1.2			7.9
9/17/2019								9.7	
3/17/2020		1.6		2.4	2.1		1.9		
3/18/2020	2		2.4			1.5			
3/25/2020								8.8	9
9/14/2020	2.1	1.5	2.5	2.7	2.5	1.5	1.9	10	8.9
3/30/2021	2.3	1.6	2.5						
3/31/2021					2.3	1.6	2.1	9.2	
4/7/2021				2.3					8.8
8/17/2021	1.9	1.6		2.6		1.6			
8/18/2021			2.7		2.4		2.2		
8/19/2021								9.3	9.9
2/9/2022	2	1.5		1.8	2.3	1.5	1.9		
2/10/2022			2.4						8.8
2/11/2022								11	
8/17/2022	2	1.5							
8/18/2022			3.1	1.9	2.4	1.6	2.1		9.9
8/19/2022								9.2	
2/21/2023	2				2.3		2		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/22/2023		1.5				1.6		9	9.9
2/23/2023			3.3	1.9					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	9.04								
5/12/2016		6.29	11.1	9.47	8.56	9.11			10.8
5/13/2016							4.87	8.16	
6/28/2016	8.8	5.4	10	9.8	7.8				
6/29/2016						8.3		7.6	11
6/30/2016							4.7		
8/18/2016	9.3	5.8	11	10	8.5	8.8			
8/22/2016							5	8.2	11
10/17/2016	8.3	5.4	11						
10/18/2016				9.4	8			7.7	10
10/19/2016						8.3	5.1		
12/6/2016	8.9	5.6							
12/7/2016			11	9.8	8	8.4	5.6		
12/8/2016								7.8	9.7
2/15/2017	8.7	5.4	11	9.8		8.1			
2/16/2017					7.7		7.4	7.4	9.8
4/12/2017	8.6	5.6	10	9.2					
4/13/2017					7.5	7.9	8.9	7.5	10
6/27/2017	9.3	5.9	11	9.5	8	8.3			
6/28/2017							10	7.9	12
10/11/2017	8.8	5.7	10						
10/12/2017				9.2	7.6	8	7.4	7.4	11
6/6/2018	8.8								
6/7/2018		6.2	10	9.3	7.7	8			9.9
6/8/2018							9	7.2	
10/16/2018				10					
10/18/2018							16		11
12/14/2018	9.1	7.5	10			8.1			
12/17/2018					8.1			7.3	
4/1/2019	9	7.7	9.9	9.2					
4/2/2019					8.2	8.2	15	7.3	11
9/16/2019	9.3								
9/17/2019		8.4	11	10	8.4	8.3	13	7.4	11
3/23/2020								7.7	10
3/24/2020						7.8			
3/26/2020	9.4						12		
3/27/2020		9	11	10	8.5				
9/14/2020	10	11							
9/15/2020			11	10	8.6	8.4	11	7.7	11
3/30/2021							11	8.3	9.9
3/31/2021				11					
4/1/2021					9.2	9.2			
4/6/2021			11						
4/7/2021	9	10							
8/18/2021						8.9	15		
8/19/2021		12	11	11	9.5			9.4	10
8/20/2021	9.9								
2/10/2022	10				9.8		19		
2/11/2022		12		12		8.4		10	9.6
2/14/2022			14						
8/18/2022	9.5	12							
8/19/2022			13	11					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/22/2022								9.6	9.4
8/23/2022							16		
8/31/2022					9.6	8			
2/22/2023						8.1	13	10	8.8
2/23/2023	9.6	11	12	11	9.8				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				2.44	9.65	12.6	9.29		
5/12/2016	7.93	10.6	9.63						
6/27/2016				2.5	6.7	13			
6/29/2016	7.7	9.7	8.8				9		
8/17/2016				2.4	6.4	14			
8/19/2016		11	9.6						
8/22/2016	7.9						9.7		
10/17/2016				2.3		12			
10/18/2016	7.1	10	9.6		5.9		9.4		
12/6/2016				2.3	5.9	12			
12/7/2016	7.7	10	9.7				11		
2/14/2017				1.9	5.8	12			
2/15/2017			10						
2/16/2017	7.4	9.8					9.5		
4/12/2017				1.6	5.6	11			
4/13/2017	7.4	9.6	9				8.7		
6/27/2017				1.6	5.7	12	9.9		
6/28/2017	8.1	10	9.6						
10/11/2017				1.6	5				
10/12/2017	8.1	9.7	9.3			11	11		
6/6/2018				1.3	4.6	11	12		
6/7/2018	8.6	10	10						
10/18/2018								6.8	6.3
12/14/2018				1.8	4.2	11			
12/17/2018	9.3	10	9.9				13		
4/1/2019					4.6	10	13		
4/2/2019	9.3	10	8.9	2					
9/16/2019				1.9			14		
9/17/2019	10				3.8	12			
9/18/2019		10	9.7						
3/23/2020	11								
3/24/2020		10	9.1						
3/25/2020				2.3		10	15		
3/26/2020					5.1				
9/14/2020				2.8	5.8	14	19		
9/15/2020	12	11	10						
3/30/2021	13								
3/31/2021		11	11				16		
4/1/2021				2.4	6	12			
8/18/2021	13	11	11	2.5	5	14			
8/19/2021							18		
2/9/2022				2.6	4			6.8	7.5
2/10/2022		10	12			12	15		
2/11/2022	11								
8/18/2022					3.5	13	17		
8/19/2022				2.6					
8/22/2022	10	11	12						
8/24/2022								7	8.2
2/22/2023				2.3	3.6	18	18		
2/23/2023	8.9	11	12					8.1	
2/24/2023									7.8

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				4.3				
10/17/2018	8.3							
10/18/2018					5.5	9.3	12	
2/8/2022		4.1	8.9					
2/9/2022	5.8			2.5	6.9		11	
2/10/2022						10		12
8/22/2022							12	
8/23/2022	6.1	3.9				8.7		
8/24/2022			9.3	2.7	7			10
2/23/2023		4.8	10		7.4		13	
2/24/2023	6.9					8.9		9.2
2/28/2023				2.7				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.002	0.0142	0.00393 (J)	<0.005	0.00634 (J)		<0.002		
5/11/2016						0.00217 (J)		<0.002	<0.002
6/23/2016	<0.002	0.0118	0.0027 (J)				<0.002		
6/24/2016					0.0053 (J)	0.0015 (J)			
6/27/2016				<0.005					
6/28/2016								<0.002	<0.002
8/16/2016	<0.002	0.0099	0.0038		0.0071		<0.002		
8/17/2016				<0.005		0.0011 (J)		<0.002	<0.002
10/13/2016	<0.002		0.0031						
10/14/2016		0.0045		<0.005	0.0067		0.0012 (J)		
10/17/2016						0.0032		<0.002	<0.002
12/5/2016			0.0027						
12/6/2016	<0.002	0.0043		<0.005	0.0063	0.0028	<0.002	<0.002	<0.002
2/14/2017	<0.002	0.014	0.0037	<0.005	0.0076	0.0046	<0.002		
2/15/2017								<0.002	<0.002
4/10/2017			0.0037						
4/11/2017	<0.002	0.014		<0.005	0.0098	0.005	<0.002		
4/12/2017								<0.002	<0.002
6/26/2017	<0.002	0.014	0.0047		0.012	0.0061	0.0021 (J)		
6/27/2017				<0.005				<0.002	<0.002
3/26/2018	<0.002	0.013	0.0042		0.012				
3/27/2018				<0.005		0.0058	<0.002	<0.002	<0.002
6/5/2018	0.0014 (J)	0.014	0.0046	<0.005			<0.002		
6/6/2018					0.015	0.0048		<0.002	<0.002
10/5/2018	0.0014 (J)	0.016	0.0058		0.015				
10/8/2018				<0.005		0.0098	0.0011 (J)		
10/9/2018								<0.002	
10/16/2018									<0.002
2/18/2019	0.0017 (J)	0.012				0.0059			
2/19/2019			0.0038	<0.005	0.014		<0.002		
2/20/2019								<0.002	<0.002
3/28/2019				<0.005	0.013	0.0046	<0.002		
3/29/2019	0.0017 (J)	0.014	0.0043						
4/1/2019								<0.002	<0.002
9/12/2019							0.0023 (J)		
9/13/2019			0.0056						
9/16/2019	0.0017 (J)	0.014		0.0015 (J)	0.019	0.0064			<0.002
9/17/2019								<0.002	
2/13/2020	<0.002	0.011	0.0036						
2/17/2020				<0.005			<0.002		
2/18/2020					0.02	0.0062			<0.002
2/19/2020								<0.002	
3/17/2020		0.014		<0.005	0.018		<0.002		
3/18/2020	0.0024		0.0047			0.0047			
3/25/2020								<0.002	<0.002
5/19/2020	<0.002	0.014	0.0051	<0.005	0.021	0.0058	<0.002		
9/14/2020	<0.002	0.014	0.005	0.0021	0.018	0.0054	<0.002	<0.002	<0.002
2/9/2021	<0.002	0.014	0.0052	0.0023	0.019	0.0053	<0.002	<0.002	<0.002
3/30/2021	0.0026	0.014	0.0047						
3/31/2021					0.018	0.0037	<0.002	<0.002	
4/7/2021				0.0024					<0.002
8/17/2021	<0.002	0.013		0.0047		0.0053			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/18/2021			0.0056		0.02		<0.002		
8/19/2021								<0.002	<0.002
2/9/2022	0.0017 (J)	0.014		0.0023	0.019	0.0048	<0.002		
2/10/2022			0.0048						<0.002
2/11/2022								<0.002	
8/17/2022	0.0016 (J)	0.013							
8/18/2022			0.004	0.0028	0.018	0.0064	0.0022		<0.002
8/19/2022								<0.002	
2/21/2023	0.0025				0.023		0.0017 (J)		
2/22/2023		0.015				0.0058		<0.002	<0.002
2/23/2023			0.0058	0.0025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.002								
5/12/2016		<0.002	<0.002	0.0335	0.00943 (J)	0.0077 (J)			<0.002
5/13/2016							0.00771 (J)	0.0151	
6/28/2016	<0.002	<0.002	0.0008 (J)	0.0339	0.0093 (J)				
6/29/2016						0.0036 (J)		0.0141	0.0009 (J)
6/30/2016							0.007 (J)		
8/18/2016	<0.002	<0.002	<0.002	0.034	0.0085	0.0027			
8/22/2016							0.007	0.015	<0.002
10/17/2016	0.0023 (J)	<0.002	0.0012 (J)						
10/18/2016				0.033	0.0088			0.013	<0.002
10/19/2016						0.00335 (JD)	0.0064		
12/6/2016	<0.002	<0.002							
12/7/2016			0.0012 (J)	0.032	0.0079	0.0027	0.0063		
12/8/2016								0.013	<0.002
2/15/2017	<0.002	<0.002	<0.002	0.03		0.0044			
2/16/2017					0.0097		0.007	0.015	<0.002
4/12/2017	<0.002	<0.002	<0.002	0.035					
4/13/2017					0.0098	0.0047	0.0061	0.016	<0.002
6/27/2017	<0.002	<0.002	<0.002	0.035	0.0096	0.0029			
6/28/2017							0.0059	0.016	<0.002
3/27/2018	<0.002	<0.002	<0.002	0.031	0.0098	0.0045			
3/28/2018							0.0082	0.014	<0.002
6/6/2018	<0.002								
6/7/2018		<0.002	<0.002	0.032	0.01	0.0083			<0.002
6/8/2018							0.0086	0.015	
10/8/2018	<0.002	<0.002	<0.002		0.013	0.0055			
10/9/2018								0.017	
10/16/2018				0.032					
10/18/2018							0.009		<0.002
2/20/2019	<0.002	<0.002	0.0016 (J)	0.038	0.013	0.0061	0.011	0.017	<0.002
4/1/2019	<0.002	<0.002	<0.002	0.032					
4/2/2019					0.01	0.004	0.0092	0.014	<0.002
9/16/2019	<0.002								
9/17/2019		0.0017 (J)	0.0026	0.037	0.013	0.0078	0.011	0.017	0.0022 (J)
2/18/2020									<0.002
2/19/2020	<0.002	<0.002	<0.002	0.038	0.014	0.0045		0.017	
2/20/2020							0.011		
3/23/2020								0.015	<0.002
3/24/2020						0.0079			
3/26/2020	<0.002						0.0096		
3/27/2020		<0.002	0.0019 (J)	0.034	0.011				
9/14/2020	<0.002	<0.002							
9/15/2020			<0.002	0.034	0.012	0.0091	0.01	0.015	<0.002
2/9/2021	<0.002	<0.002	<0.002	0.035	0.012				
2/10/2021						0.008	0.01	0.015	<0.002
3/30/2021							0.0098	0.014	<0.002
3/31/2021				0.034					
4/1/2021					0.012	0.0046			
4/6/2021			<0.002						
4/7/2021	<0.002	<0.002							
8/18/2021						0.012	0.019		
8/19/2021		<0.002	<0.002	0.032	0.011			0.014	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.002								
2/10/2022	<0.002				0.012		0.01		
2/11/2022		<0.002		0.032		0.0079		0.015	<0.002
2/14/2022			<0.002						
8/18/2022	<0.002	<0.002							
8/19/2022			0.0066	0.032					
8/22/2022								0.013	<0.002
8/23/2022							0.0095		
8/31/2022					0.012	0.0088			
2/22/2023						0.0084	0.0096	0.013	<0.002
2/23/2023	<0.002	<0.002	<0.002	0.029	0.012				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.002	<0.002	<0.002	<0.002		
5/12/2016	<0.002	<0.002	<0.002						
6/27/2016				<0.002	<0.002	<0.002			
6/29/2016	0.0012 (J)	0.0007 (J)	0.0013 (J)				<0.002		
8/17/2016				<0.002	<0.002	<0.002			
8/19/2016		<0.002	<0.002						
8/22/2016	<0.002						<0.002		
10/17/2016				<0.002		<0.002			
10/18/2016	<0.002	<0.002	<0.002		<0.002		<0.002		
12/6/2016				<0.002	<0.002	<0.002			
12/7/2016	<0.002	<0.002	<0.002				<0.002		
2/14/2017				<0.002	<0.002	<0.002			
2/15/2017			<0.002						
2/16/2017	<0.002	<0.002					<0.002		
4/12/2017				<0.002	<0.002	0.0011 (J)			
4/13/2017	<0.002	<0.002	0.0014 (J)				<0.002		
6/27/2017				<0.002	<0.002	<0.002	<0.002		
6/28/2017	<0.002	<0.002	0.0025						
3/27/2018			0.0012 (J)	<0.002	<0.002	0.0012 (J)			
3/28/2018	<0.002	<0.002					<0.002		
6/6/2018				<0.002	<0.002	0.0013 (J)	<0.002		
6/7/2018	<0.002	<0.002	<0.002						
10/8/2018	<0.002	0.0012 (J)	0.0017 (J)	<0.002					
10/9/2018					<0.002	0.0016 (J)	<0.002		
10/18/2018								<0.0025	<0.002
2/19/2019		<0.002	<0.002						
2/20/2019	0.0015 (J)			<0.002	<0.002	0.0021 (J)	<0.002		
4/1/2019					<0.002	0.0013 (J)	<0.002		
4/2/2019	<0.002	0.0012 (J)	0.0011 (J)	<0.002					
9/16/2019				<0.002			<0.002		
9/17/2019	0.0016 (J)				<0.002	0.0031			
9/18/2019		0.0024 (J)	0.0024 (J)						
2/18/2020	<0.002	0.0015 (J)	<0.002	<0.002	<0.002	0.0015 (J)			
2/19/2020							<0.002		
3/23/2020	<0.002								
3/24/2020		<0.002	<0.002						
3/25/2020				<0.002		<0.002	<0.002		
3/26/2020					<0.002				
9/14/2020				<0.002	<0.002	<0.002	<0.002		
9/15/2020	0.002	0.0025	0.0017 (J)						
2/9/2021				<0.002	<0.002	<0.002	<0.002		
2/10/2021	<0.002	0.0015 (J)	0.0017 (J)						
3/30/2021	<0.002								
3/31/2021		<0.002	0.0016 (J)				<0.002		
4/1/2021				<0.002	<0.002	<0.002			
8/18/2021	0.0022	<0.002	0.0019 (J)	<0.002	0.0026	<0.002			
8/19/2021							<0.002		
2/9/2022				<0.002	<0.002			0.0058	<0.002
2/10/2022		<0.002	0.0015 (J)			<0.002	<0.002		
2/11/2022	<0.002								
8/18/2022					<0.002	0.055 (o)	<0.002		
8/19/2022				<0.002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	0.0016 (J)	0.0022	0.0017 (J)						
8/24/2022								0.0051	<0.002
2/22/2023				<0.002	<0.002	0.0023	<0.002		
2/23/2023	<0.002	<0.002	0.0016 (J)					0.0059	
2/24/2023									0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				0.0046				
10/17/2018	0.0027							
10/18/2018					0.0049	<0.002	<0.002	
2/8/2022		0.0018 (J)	0.003					
2/9/2022	0.028			<0.002	0.0036		<0.002	
2/10/2022						<0.002		<0.002
8/22/2022							0.003	
8/23/2022	0.014	0.0024				<0.002		
8/24/2022			0.0034	<0.002	0.0037			<0.002
2/23/2023		0.0022	0.0034		0.0042		<0.002	
2/24/2023	0.03					<0.002		<0.002
2/28/2023				<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	0.0184	<0.0025	<0.0025	0.0132	<0.0025		<0.0025		
5/11/2016						<0.0025		0.0191	0.0378
6/23/2016	0.0168	0.0004 (J)	0.0004 (J)				<0.0025		
6/24/2016					<0.0025	<0.0025			
6/27/2016				0.0099 (J)					
6/28/2016								0.0192	0.0332
8/16/2016	0.016	<0.0025	<0.0025		0.00051 (J)		<0.0025		
8/17/2016				0.01		0.00041 (J)		0.022	0.03
10/13/2016	0.02		0.0004 (J)						
10/14/2016		<0.0025		0.013	<0.0025		<0.0025		
10/17/2016						<0.0025		0.05	0.032
12/5/2016			<0.0025						
12/6/2016	0.016	<0.0025		0.016	<0.0025	<0.0025	<0.0025	0.04	0.029
2/14/2017	0.011	<0.0025	<0.0025	0.018	<0.0025	<0.0025	<0.0025		
2/15/2017								0.038	0.029
4/10/2017			<0.0025						
4/11/2017	0.0098	<0.0025		0.015	<0.0025	<0.0025	<0.0025		
4/12/2017								0.018	0.028
6/26/2017	0.01	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025		
6/27/2017				0.0088				0.014	0.029
3/26/2018	0.0065	<0.0025	<0.0025		<0.0025				
3/27/2018				0.014		<0.0025	<0.0025	0.026	0.024
6/5/2018	0.0028	<0.0025	<0.0025	0.0095			<0.0025		
6/6/2018					<0.0025	<0.0025		0.018	0.026
10/5/2018	0.00075 (J)	<0.0025	0.00058 (J)		<0.0025				
10/8/2018				0.0047		<0.0025	<0.0025		
10/9/2018								0.03	
10/16/2018									0.023
2/18/2019	0.0008 (J)	<0.0025				<0.0025			
2/19/2019			<0.0025	0.005	<0.0025		<0.0025		
2/20/2019								0.034	0.024
3/28/2019				0.0042	<0.0025	<0.0025	<0.0025		
3/29/2019	0.00072 (J)	<0.0025	<0.0025						
4/1/2019								0.025	0.021
9/12/2019							<0.0025		
9/13/2019			0.00018 (J)						
9/16/2019	0.0014 (J)	<0.0025		0.0045	<0.0025	<0.0025			0.022
9/17/2019								0.022	
2/13/2020	0.0014 (J)	<0.0025	<0.0025						
2/17/2020				0.0044			<0.0025		
2/18/2020					<0.0025	<0.0025			0.018
2/19/2020								0.027	
3/17/2020		<0.0025		0.0039	<0.0025		<0.0025		
3/18/2020	0.0021 (J)		0.00016 (J)			0.00032 (J)			
3/25/2020								0.029	0.024
9/14/2020	0.0013 (J)	<0.0025	0.00031 (J)	0.002 (J)	<0.0025	<0.0025	<0.0025	0.022	0.019
2/9/2021	0.0013 (J)	<0.0025	0.00023 (J)	0.0011 (J)	<0.0025	<0.0025	<0.0025	0.03	0.019
3/30/2021	0.0013 (J)	0.00021 (J)	<0.0025						
3/31/2021					<0.0025	<0.0025	<0.0025	0.026	
4/7/2021				0.0013 (J)					0.019
8/17/2021	0.00072 (J)	<0.0025		0.0011 (J)		<0.0025			
8/18/2021			0.00057 (J)		<0.0025		<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								0.022	0.014
2/9/2022	0.00089 (J)	<0.0025		0.00045 (J)	<0.0025	<0.0025	<0.0025		
2/10/2022			<0.0025						0.021
2/11/2022								0.023	
8/17/2022	0.00055 (J)	<0.0025							
8/18/2022			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		0.012
8/19/2022								0.022	
2/21/2023	0.00071 (J)				<0.0025		<0.0025		
2/22/2023		<0.0025				<0.0025		0.025	0.023
2/23/2023			<0.0025	<0.0025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	0.00648 (J)								
5/12/2016		0.0145	0.00605 (J)	0.267	0.00303 (J)	<0.0025			0.261
5/13/2016							0.116	<0.0025	
6/28/2016	0.0051 (J)	0.011	0.0115	0.255	0.0029 (J)				
6/29/2016						0.0007 (J)		0.0006 (J)	0.23
6/30/2016							0.112		
8/18/2016	0.0035	0.0099	0.011	0.26	0.0029	0.00078 (J)			
8/22/2016							0.13	0.00066 (J)	0.25
10/17/2016	0.003	0.01	0.017						
10/18/2016				0.28	0.0034			0.00095 (J)	0.26
10/19/2016						0.000845 (JD)	0.14		
12/6/2016	0.0036	0.0079							
12/7/2016			0.0043	0.26	0.003	0.00056 (J)	0.11		
12/8/2016								0.00078 (J)	0.26
2/15/2017	0.004	0.0073	0.0059	0.24		0.00069 (J)			
2/16/2017					0.0033		0.11	0.00049 (J)	0.23
4/12/2017	0.0039	0.0078	0.017	0.28					
4/13/2017					0.0034	0.00049 (J)	0.094	<0.0025	0.19
6/27/2017	0.0042	0.0068	0.013	0.29	0.0037	0.00041 (J)			
6/28/2017							0.085	<0.0025	0.19
3/27/2018	0.0035	0.0035	0.0083	0.27	0.0037	<0.0025			
3/28/2018							0.16	<0.0025	0.18
6/6/2018	0.0038								
6/7/2018		0.0039	0.0025	0.3	0.0037	<0.0025			0.21
6/8/2018							0.19	<0.0025	
10/8/2018	0.0037	0.0036	0.0071		0.0044	0.00046 (J)			
10/9/2018								<0.0025	
10/16/2018				0.27					
10/18/2018							0.21		0.16
2/20/2019	0.0032	0.004	0.011	0.26	0.0038	0.00035 (J)	0.19	0.00012 (J)	0.18
4/1/2019	0.0029	0.003	0.014	0.26					
4/2/2019					0.0041	<0.0025	0.18	<0.0025	0.13
9/16/2019	0.003								
9/17/2019		0.0024 (J)	0.0096	0.27	0.0042	0.00048 (J)	0.16	0.00013 (J)	0.13
2/18/2020									0.12
2/19/2020	0.0027	0.0018 (J)	0.0099	0.28	0.0047	0.00034 (J)		0.00015 (J)	
2/20/2020							0.14		
3/23/2020								<0.0025	0.22
3/24/2020						0.00044 (J)			
3/26/2020	0.0024 (J)						0.15		
3/27/2020		0.002 (J)	0.0093	0.28	0.0047				
9/14/2020	0.001 (J)	0.0022 (J)							
9/15/2020			0.0076	0.25	0.0043	0.00041 (J)	0.12	0.00016 (J)	0.098
2/9/2021	0.0014 (J)	0.0024 (J)	0.0052	0.26	0.0045				
2/10/2021						0.00049 (J)	0.11	0.00013 (J)	0.17
3/30/2021							0.11	<0.0025	0.15
3/31/2021				0.26					
4/1/2021					0.0049	0.00041 (J)			
4/6/2021			0.0072						
4/7/2021	0.0017 (J)	0.0018 (J)							
8/18/2021						0.00043 (J)	0.095		
8/19/2021		0.0021 (J)	0.0047	0.27	0.0051			<0.0025	0.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	0.0019 (J)								
2/10/2022	0.00079 (J)				0.0049		0.09		
2/11/2022		0.0015 (J)		0.23		0.00036 (J)		0.00045 (J)	0.14
2/14/2022			0.0065						
8/18/2022	0.001 (J)	0.0019 (J)							
8/19/2022			0.01	0.25					
8/22/2022								<0.0025	0.11
8/23/2022							0.088		
8/31/2022					0.0054	0.00045 (J)			
2/22/2023						0.00043 (J)	0.072	<0.0025	0.082
2/23/2023	0.0014 (J)	0.0016 (J)	0.0047	0.23	0.0056				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.0025	0.0116	0.00265 (J)	0.0156		
5/12/2016	<0.0025	0.00619 (J)	<0.0025						
6/27/2016				0.002 (J)	0.0143	0.0012 (J)			
6/29/2016	<0.0025	0.0051 (J)	<0.0025				0.0147		
8/17/2016				0.0018 (J)	0.012	0.00049 (J)			
8/19/2016		0.0045	<0.0025						
8/22/2016	<0.0025						0.017		
10/17/2016				0.0016 (J)		<0.0025			
10/18/2016	<0.0025	0.0043	<0.0025		0.0099		0.017		
12/6/2016				0.0012 (J)	0.011	<0.0025			
12/7/2016	<0.0025	0.0034	<0.0025				0.014		
2/14/2017				0.0022 (J)	0.0093	<0.0025			
2/15/2017			<0.0025						
2/16/2017	<0.0025	0.0031					0.014		
4/12/2017				0.0023 (J)	0.0062	<0.0025			
4/13/2017	<0.0025	0.0031	<0.0025				0.014		
6/27/2017				0.0045	0.021	<0.0025	0.013		
6/28/2017	<0.0025	0.0029	<0.0025						
3/27/2018			<0.0025	0.004	0.0054	<0.0025			
3/28/2018	<0.0025	0.0022 (J)					0.0087		
6/6/2018				0.0021 (J)	0.0034	<0.0025	0.0064		
6/7/2018	<0.0025	0.0022 (J)	<0.0025						
10/8/2018	<0.0025	0.0021 (J)	<0.0025	<0.0025					
10/9/2018					0.013	<0.0025	0.0049		
10/18/2018								0.0092	0.0086
2/19/2019		0.0018 (J)	<0.0025						
2/20/2019	0.00011 (J)			0.00011 (J)	0.0057	0.00014 (J)	0.01		
4/1/2019					0.0046	<0.0025	0.01		
4/2/2019	<0.0025	0.0018 (J)	<0.0025	<0.0025					
9/16/2019				0.00013 (J)			0.001 (J)		
9/17/2019	8.7E-05 (J)				0.0039	0.00013 (J)			
9/18/2019		0.002 (J)	0.00013 (J)						
2/18/2020	0.00014 (J)	0.0018 (J)	<0.0025	<0.0025	0.0067	<0.0025			
2/19/2020							0.0082		
3/23/2020	0.00016 (J)								
3/24/2020		0.0016 (J)	<0.0025						
3/25/2020				0.00027 (J)		0.00032 (J)	0.0064		
3/26/2020					0.0033				
9/14/2020				<0.0025	0.0063	<0.0025	0.00048 (J)		
9/15/2020	0.00022 (J)	0.0014 (J)	<0.0025						
2/9/2021				<0.0025	0.0069	<0.0025	0.0032		
2/10/2021	0.00017 (J)	0.0015 (J)	<0.0025						
3/30/2021	0.00016 (J)								
3/31/2021		0.0011 (J)	<0.0025				0.0046		
4/1/2021				<0.0025	0.0029	<0.0025			
4/5/2021								0.0012 (J)	
4/7/2021									0.00097 (J)
8/18/2021	0.00016 (J)	0.001 (J)	<0.0025	0.00024 (J)	0.0021 (J)	0.00021 (J)			0.00025 (J)
8/19/2021							0.00072 (J)	0.0013 (J)	
2/9/2022				<0.0025	0.0024 (J)			0.00093 (J)	<0.0025
2/10/2022		0.0016 (J)	<0.0025			<0.0025	0.0022 (J)		
2/11/2022	<0.0025								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/18/2022					0.0012 (J)	0.00075 (J)	0.00084 (J)		
8/19/2022				<0.0025					
8/22/2022	<0.0025	0.001 (J)	<0.0025						
8/24/2022								0.001 (J)	<0.0025
2/22/2023				0.0003 (J)	0.0014 (J)	<0.0025	0.00062 (J)		
2/23/2023	<0.0025	0.00069 (J)	<0.0025					0.0004 (J)	
2/24/2023									<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				0.0021 (J)				
10/17/2018	0.00051 (J)							
10/18/2018					<0.0025	0.0076	0.0064	
9/18/2020			0.0057					
4/2/2021	0.0003 (J)	0.00019 (J)	0.007					
8/18/2021		0.0003 (J)						
8/19/2021	0.00028 (J)							
8/20/2021			0.006					
2/8/2022		0.00028 (J)	0.0052					
2/9/2022	<0.0025			0.0024 (J)	<0.0025		0.00061 (J)	
2/10/2022						0.0025		0.002 (J)
8/22/2022							0.0012 (J)	
8/23/2022	<0.0025	0.00046 (J)				0.0029		
8/24/2022			0.0059	0.0016 (J)	<0.0025			0.0013 (J)
2/23/2023		<0.0025	0.0057		<0.0025		<0.0025	
2/24/2023	<0.0025					0.0014 (J)		0.0021 (J)
2/28/2023				0.0019 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	0.275 (U)	0.441	0.31 (U)	-0.013 (U)	0.188 (U)		0.338 (U)		
5/11/2016						0.284 (U)		0.26 (U)	0.182 (U)
6/23/2016	0.077 (U)	0.155 (U)	0.455 (U)				0.358 (U)		
6/24/2016					1.2	0.974			
6/27/2016				0.667 (U)					
6/28/2016								1.57	0.858
8/16/2016	0.13 (U)	0.621	0.162 (U)		0.168 (U)		0.224 (U)		
8/17/2016				0.148 (U)		0.202 (U)		0.548 (U)	0.367 (U)
10/13/2016	0.309 (U)		0.327 (U)						
10/14/2016		0.765		0.448 (U)	0.345 (U)		0.999		
10/17/2016						0.114 (U)		-0.0725 (U)	0.551
12/5/2016			0.233 (U)						
12/6/2016	0.346 (U)	0.29 (U)		0.51	0.221 (U)	0.251 (U)	0.387 (U)	0.496	0.438
2/14/2017	0.352 (U)	0.111 (U)	0.237 (U)	0.302 (U)	-0.026 (U)	-0.0166 (U)	0.207 (U)		
2/15/2017								0.321 (U)	-0.0831 (U)
4/10/2017			0.00056 (U)						
4/11/2017	0.274 (U)	0.195 (U)		-0.0184 (U)	0.135 (U)	-0.168 (U)	0.219 (U)		
4/12/2017								-0.0397 (U)	0.343 (U)
6/26/2017	0.36	0.0975 (U)	-0.257 (U)		0.332 (U)	0.184 (U)	0.151 (U)		
6/27/2017				-0.0536 (U)				0.47	0.369
3/26/2018	0.522	0.124 (U)	0.141 (U)		0.226 (U)				
3/27/2018				0.207 (U)		0.164 (U)	0.252 (U)	0.136 (U)	0.172 (U)
6/5/2018	0.106 (U)	0.0496 (U)	0.163 (U)	-0.0364 (U)			0.255 (U)		
6/6/2018					0.175 (U)	0.308		0.123 (U)	0.153 (U)
10/5/2018	0.522	0.474	0.568		0.5				
10/8/2018				0.478		-0.0974 (U)	0.764		
10/9/2018								0.387	
10/16/2018									1.06
2/18/2019	0.362	0.25 (U)				0.0112 (U)			
2/19/2019			0.14 (U)	0.32 (U)	0.231 (U)		0.044 (U)		
2/20/2019								0.0159 (U)	0.708
3/28/2019				0.0254 (U)	0.31 (U)	0.0974 (U)	0.115 (U)		
3/29/2019	0.311 (U)	-0.0232 (U)	0.0992 (U)						
4/1/2019								0.452	0.173 (U)
9/12/2019							0.102 (U)		
9/13/2019			0.339 (U)						
9/16/2019	0.157 (U)	-0.245 (U)		-0.0172 (UR)	0.333 (U)	0.0843 (U)			0.251 (U)
9/17/2019								0.226 (U)	
2/13/2020	0.152 (U)	0.205 (U)	0.287 (U)						
2/17/2020				-0.0319 (U)			-0.0291 (U)		
2/18/2020					0.313 (U)	0.199 (U)			0.203 (U)
2/19/2020								0.0222 (U)	
3/17/2020		0.582 (U)		0.436 (U)	-0.0428 (U)		-0.196 (U)		
3/18/2020	0.21 (U)		0.536			0.226 (U)			
3/25/2020								0.253 (U)	0.204 (U)
9/14/2020	-0.13 (U)	0.107 (U)	0.637 (U)	-0.197 (U)	0.161 (U)	0.0399 (U)	-0.949 (U)	0.125 (U)	-0.0264 (U)
2/9/2021	0.225 (U)	0.0251 (U)	0.151 (U)	0.478	0.259 (U)	0.0123 (U)	0.0364 (U)	-0.0573 (U)	0.114 (U)
3/30/2021	0.408 (U)	0.311 (U)	-0.211 (U)						
3/31/2021					0.106 (U)	0.236 (U)	0.279 (U)	0.188 (U)	
4/7/2021				0.0851 (U)					0.0576 (U)
8/17/2021	0.651	0.192 (U)		0.228 (U)		1.54			
8/18/2021			0.16 (U)		0.228 (U)		0.242 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								0.102 (U)	0.755
2/9/2022	0.147 (U)	0.307 (U)		0.15 (U)	0.198 (U)	0.0285 (U)	0.416		
2/10/2022			0.0512 (U)						0.11 (U)
2/11/2022								0.436	
8/17/2022	0.751	-0.129 (U)							
8/18/2022			0.263 (U)	0.371 (U)	0.849	0.647	0.592		0.393 (U)
8/19/2022								0.606	
2/21/2023	0.00883 (U)				0.324 (U)		0.575 (U)		
2/22/2023		-0.0355 (U)				0.0211 (U)		0.285 (U)	-0.172 (U)
2/23/2023			0.355 (U)	-0.132 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	0.433								
5/12/2016		0.0531 (U)	0.106 (U)	0.344 (U)	0.0196 (U)	0.134 (U)			0.556
5/13/2016							0.103 (U)	-0.115 (U)	
6/28/2016	0.435 (U)	0.483 (U)	0.735 (U)	0.256 (U)	0.418 (U)				
6/29/2016						0.391 (U)		0.396 (U)	0.162 (U)
6/30/2016							0.593 (U)		
8/18/2016	0.214 (U)	0.286 (U)	0.212 (U)	0.503 (U)	0.199 (U)	0.498 (U)			
8/22/2016							0.17 (U)	-0.102 (U)	0.433 (U)
10/17/2016	0.316 (U)	0.472	-0.187 (U)						
10/18/2016				0.171 (U)	0.0404 (U)			0.352 (U)	0.741
10/19/2016						0.639	0.433		
12/6/2016	0.0575 (U)	0.903							
12/7/2016			0.701	0.375 (U)	0.426	0.239 (U)	0.435 (U)		
12/8/2016								0.431 (U)	1.06
2/15/2017	-0.0321 (U)	-0.223 (U)	0.155 (U)	0.0801 (U)		0.175 (U)			
2/16/2017					0.163 (U)		0.101 (U)	0.146 (U)	0.382 (U)
4/12/2017	0.00949 (U)	0.21 (U)	0.233 (U)	0.197 (U)					
4/13/2017					0.0522 (U)	-0.00846 (U)	-0.0014 (U)	0.127 (U)	0.189 (U)
6/27/2017	0.183 (U)	0.0574 (U)	0.302	0.0274 (U)	0.222 (U)	0.186 (U)			
6/28/2017							0.512	0.11 (U)	0.84
3/27/2018	0.445	0.145 (U)	0.306 (U)	0.285 (U)	0.387 (U)	0.249 (U)			
3/28/2018							0.428	0.247 (U)	0.334 (U)
6/6/2018	0.0775 (U)								
6/7/2018		0.235 (U)	0.211 (U)	0.64	0.283 (U)	0.172 (U)			0.235 (U)
6/8/2018							0.32 (U)	0.0462 (U)	
10/8/2018	0.865	0.64	0.636		0.799	0.682			
10/9/2018								0.584	
10/16/2018				0.731					
10/18/2018							0.304 (U)		0.399
2/20/2019	0.161 (U)	0.222 (U)	0.147 (U)	0.573	0.0684 (U)	0.278 (U)	0.139 (U)	0.114 (U)	0.353
4/1/2019	0.372	0.36	-0.138 (U)	0.0499 (U)					
4/2/2019					0.167 (U)	-0.0476 (U)	0.336 (U)	0.11 (U)	0.271 (U)
9/16/2019	0.569 (U)								
9/17/2019		0.143 (U)	0.264 (U)	0.441 (U)	0.558	0.235 (U)	0.449	0.302 (U)	0.591
2/18/2020									0.474
2/19/2020	0.166 (U)	0.218 (U)	0.0061 (U)	0.415 (U)	0.0321 (U)	0.217 (U)		0.308 (U)	
2/20/2020							0.22 (U)		
3/23/2020								0.171 (U)	0.258 (U)
3/24/2020						0.426			
3/26/2020	0.604						0.366 (U)		
3/27/2020		0.235 (U)	0.206 (U)	0.39 (U)	0.305 (U)				
9/14/2020	0.575	0.613							
9/15/2020			0.131 (U)	0.546	-0.0426 (U)	0.661	1.74	1.55	0.831
2/9/2021	0.146 (U)	0.307 (U)	-0.121 (U)	0.222 (U)	-0.00967 (U)				
2/10/2021						0.55	0.423 (U)	0.235 (U)	0.331 (U)
3/30/2021							0.439 (U)	0.511	0.572
3/31/2021				0.311 (U)					
4/1/2021					0.0901 (U)	0.0517 (U)			
4/6/2021			-0.0391 (U)						
4/7/2021	0.0695 (U)	0.356 (U)							
8/18/2021						0.13 (U)	0.277 (U)		
8/19/2021		0.228 (U)	-0.0806 (U)	0.518	0.037 (U)			-0.0514 (U)	-0.21 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	0.0109 (U)								
2/10/2022	0.279 (U)				0.595		0.244 (U)		
2/11/2022		0.631		0.5		0.233 (U)		0.456 (U)	0.259 (U)
2/14/2022			0.377 (U)						
8/18/2022	0.384 (U)	0.377 (U)							
8/19/2022			0.378 (U)	0.459					
8/22/2022								0.356 (U)	0.475 (U)
8/23/2022							0.345 (U)		
8/31/2022					0.31 (U)	0.434 (U)			
2/22/2023						0.0917 (U)	0.0285 (U)	0.297 (U)	0.154 (U)
2/23/2023	0.784	0.506 (U)	0.0406 (U)	0.0665 (U)	0.183 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				0.0394 (U)	0.214 (U)	2.05	0.134 (U)		
5/12/2016	0.216 (U)	0.285 (U)	0.801						
6/27/2016				0.624 (U)	0.581 (U)	2.9			
6/29/2016	0.253 (U)	1.1	0.423 (U)				0.665 (U)		
8/17/2016				0.572	0.665	2.57			
8/19/2016		0.367 (U)	0.869						
8/22/2016	0.115 (U)						0.391 (U)		
10/17/2016				0.307 (U)		2.08			
10/18/2016	0.593	0.276 (U)	0.881		0.453		0.521		
12/6/2016				0.122 (U)	0.368 (U)	2.25			
12/7/2016	0.897	0.318 (U)	0.455				0.367 (U)		
2/14/2017				0.166 (U)	0.328 (U)	1.77			
2/15/2017			0.635						
2/16/2017	0.132 (U)	0.168 (U)					0.076 (U)		
4/12/2017				0.355 (U)	0.206 (U)	2.72			
4/13/2017	0.287 (U)	0.3 (U)	0.413				0.239 (U)		
6/27/2017				0.0783 (U)	0.598	2.07	0.268 (U)		
6/28/2017	0.143 (U)	0.0844 (U)	0.331 (U)						
3/27/2018			0.61	0.0443 (U)	0.546	2.3			
3/28/2018	0.38	0.0661 (U)					0.378		
6/6/2018				0.127 (U)	0.165 (U)	1.59	-0.0272 (U)		
6/7/2018	0.514	0.222 (U)	0.64						
10/8/2018	0.374	0.499	0.437	0.77					
10/9/2018					0.385	3.01	0.565		
10/18/2018								0.698	1.64
2/19/2019		0.532	0.301 (U)						
2/20/2019	0.239 (U)			0.25 (U)	0.433	2.5	0.425		
4/1/2019					0.675	1.91	-0.0113 (U)		
4/2/2019	0.218 (U)	0.313 (U)	0.516	0.3 (U)					
9/16/2019				0.0805 (U)			-0.116 (U)		
9/17/2019	-0.04 (U)				0.341 (U)	2.04			
9/18/2019		0.101 (U)	0.285 (U)						
2/18/2020	0.287 (U)	0.0109 (U)	0.399	-0.0675 (U)	0.326 (U)	2.06			
2/19/2020							0.0604 (U)	0.216 (U)	
3/23/2020	0.384								
3/24/2020		0.188 (U)	0.183 (U)						
3/25/2020				0.411 (U)		2.99	0.206 (U)		
3/26/2020					0.151 (U)				
9/14/2020				0.334 (U)	0.123 (U)	2.16	0.502 (U)		
9/15/2020	1.6	1.82	1.03						
2/9/2021				0.273 (U)	0.721	2.92	0.0162 (U)		
2/10/2021	0.5	0.167 (U)	0.46						
3/30/2021	0.955								
3/31/2021		0.0687 (U)	0.37 (U)				0.153 (U)		
4/1/2021				0.544	0.329 (U)	2.26			
8/18/2021	0.505	0.026 (U)	0.603	-0.0332 (U)	0.726	1.68			
8/19/2021							0.145 (U)		
2/9/2022				0.145 (U)	0.659			0.229 (U)	0.412 (U)
2/10/2022		0.346 (U)	0.204 (U)			2.08	0.179 (U)		
2/11/2022	0.689								
8/18/2022					0.309 (U)	2.58	0.275 (U)		
8/19/2022				0.243 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	0.565	0.632	0.0738 (U)						
8/24/2022								0.456	0.241 (U)
2/22/2023				0.0662 (U)	-0.191 (U)	0.866	0.473 (U)		
2/23/2023	0.526 (U)	0.322 (U)	0.314 (U)					0.168 (U)	
2/24/2023									0.602

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				0.551 (U)				
10/17/2018	0.0623 (U)							
10/18/2018					0.882	1.59	0.188 (U)	
2/18/2020		0.163 (U)						
2/8/2022		0.0627 (U)	-0.0564 (U)					
2/9/2022	0.332 (U)			0.237 (U)	0.31 (U)		0.274 (U)	
2/10/2022						0.366 (U)		0.418 (U)
8/22/2022							0.401 (U)	
8/23/2022	0.565	0.432 (U)				0.986		
8/24/2022			0.234 (U)	0.0981 (U)	0.125 (U)			0.458
2/23/2023		0.413 (U)	-0.0151 (U)		0.255 (U)		0.651	
2/24/2023	0.131 (U)					0.714		-0.097 (U)
2/28/2023				-0.0607 (U)				

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.1	0.0537 (J)	0.0648 (J)	0.041 (J)	0.0192 (J)		0.0188 (J)		
5/11/2016						0.108 (J)		0.019 (J)	0.033 (J)
6/23/2016	<0.1	0.03 (J)	0.05 (J)				<0.1		
6/24/2016					0.02 (J)	0.08 (J)			
6/27/2016				0.03 (J)					
6/28/2016								<0.1	0.08 (J)
8/16/2016	<0.1	<0.2	<0.2		<0.1		<0.1		
8/17/2016				<0.2		<0.1		<0.1	<0.1
10/13/2016	<0.1		<0.2						
10/14/2016		<0.2		<0.2	<0.1		<0.1		
10/17/2016						<0.1		<0.1	<0.1
12/5/2016			<0.2						
12/6/2016	<0.1	<0.2		<0.2	<0.1	0.091 (J)	<0.1	<0.1	<0.1
2/14/2017	<0.1	<0.2	<0.2	<0.2	<0.1	0.1 (J)	<0.1		
2/15/2017								<0.1	<0.1
4/10/2017			<0.2						
4/11/2017	<0.1	<0.2		<0.2	<0.1	<0.1	<0.1		
4/12/2017								<0.1	<0.1
6/26/2017	<0.1	<0.2	<0.2		<0.1	<0.1	<0.1		
6/27/2017				<0.2				<0.1	<0.1
10/10/2017	<0.1	<0.2	<0.2						
10/11/2017				<0.2	<0.1	<0.1	<0.1		<0.1
10/12/2017								<0.1	
3/26/2018	<0.1	<0.2	<0.2		<0.1				
3/27/2018				<0.2		<0.1	<0.1	<0.1	<0.1
6/5/2018	<0.1	<0.2	<0.2	<0.2			<0.1		
6/6/2018					<0.1	<0.1		<0.1	<0.1
10/5/2018	<0.1	<0.2	<0.2		<0.1				
10/8/2018				<0.2		<0.1	<0.1		
10/9/2018								<0.1	
10/16/2018									<0.1
2/18/2019	<0.1	0.05 (J)				0.066 (J)			
2/19/2019			0.06 (J)	0.044 (J)	<0.1		<0.1		
2/20/2019								<0.1	<0.1
3/28/2019				0.037 (J)	0.026 (J)	0.052 (J)	<0.1		
3/29/2019	<0.1	0.053 (J)	0.056 (J)						
4/1/2019								<0.1	<0.1
9/12/2019							<0.1		
9/13/2019			0.049 (J)						
9/16/2019	<0.1	0.054 (J)		0.04 (J)	0.026 (J)	0.055 (J)			<0.1
9/17/2019								<0.1	
2/13/2020	<0.1	0.051 (J)	0.066 (J)						
2/17/2020				0.041 (J)			<0.1		
2/18/2020					<0.1	0.068 (J)			<0.1
2/19/2020								<0.1	
3/17/2020		0.038 (J)		0.041 (J)	0.029 (J)		0.03 (J)		
3/18/2020	<0.1		0.078 (J)			<0.1			
3/25/2020								0.031 (J)	0.058 (J)
9/14/2020	<0.1	0.033 (J)	0.038 (J)	0.028 (J)	<0.1	0.035 (J)	<0.1	<0.1	<0.1
2/9/2021	<0.1	0.055 (J)	0.059 (J)	0.037 (J)	<0.1	0.059 (J)	<0.1	<0.1	<0.1
3/30/2021	<0.1	0.048 (J)	0.052 (J)						
3/31/2021					<0.1	0.051 (J)	<0.1	0.047 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
4/7/2021				0.054 (J)					<0.1
8/17/2021	0.052 (J)	0.096 (J)		0.079 (J)		0.093 (J)			
8/18/2021			0.16		0.066 (J)		0.07 (J)		
8/19/2021								<0.1	<0.1
2/9/2022	0.034 (J)	0.11		0.069 (J)	0.049 (J)	0.083 (J)	0.044 (J)		
2/10/2022			0.061 (J)						<0.1
2/11/2022								0.03 (J)	
8/17/2022	0.088 (J)	0.076 (J)							
8/18/2022			0.051 (J)	0.044 (J)	0.034 (J)	0.056 (J)	0.036 (J)		0.034 (J)
8/19/2022								<0.1	
2/21/2023	0.048 (J)				0.041 (J)		0.039 (J)		
2/22/2023		0.07 (J)				0.6 (o)		0.045 (J)	0.063 (J)
2/23/2023			0.074 (J)	0.075 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	0.11 (J)								
5/12/2016		0.042 (J)	0.031 (J)	0.1071 (J)	0.011 (J)	0.066 (J)			0.259 (J)
5/13/2016							0.0343 (J)	0.0126 (J)	
6/28/2016	0.18 (J)	0.15 (J)	0.03 (J)	0.26 (J)	0.09 (J)				
6/29/2016						0.17 (J)		0.18 (J)	0.45
6/30/2016							0.18 (J)		
8/18/2016	0.12 (J)	<0.1	<0.1	0.14 (J)	<0.1	<0.2			
8/22/2016							<0.1	<0.1	0.33
10/17/2016	0.082 (J)	<0.1	<0.1						
10/18/2016				0.12 (J)	<0.1			<0.1	0.26
10/19/2016						<0.2	<0.1		
12/6/2016	0.11 (J)	<0.1							
12/7/2016			<0.1	0.13 (J)	<0.1	<0.2	<0.1		
12/8/2016								<0.1	0.28
2/15/2017	0.13 (J)	<0.1	<0.1	0.12 (J)		0.089 (J)			
2/16/2017					<0.1		<0.1	<0.1	0.28
4/12/2017	0.088 (J)	<0.1	<0.1	0.11 (J)					
4/13/2017					<0.1	<0.2	<0.1	<0.1	0.2
6/27/2017	0.1 (J)	<0.1	<0.1	0.13 (J)	<0.1	<0.2			
6/28/2017							<0.1	<0.1	0.22
10/11/2017	<0.2	<0.1	<0.1						
10/12/2017				0.13 (J)	<0.1	<0.2	<0.1	<0.1	0.18 (J)
3/27/2018	<0.2	<0.1	<0.1	0.12 (J)	<0.1	<0.2			
3/28/2018							<0.1	<0.1	0.19 (J)
6/6/2018	<0.2								
6/7/2018		<0.1	<0.1	0.14 (J)	<0.1	<0.2			0.21
6/8/2018							<0.1	<0.1	
10/8/2018	<0.2	<0.1	<0.1		<0.1	<0.2			
10/9/2018								<0.1	
10/16/2018				0.14 (J)					
10/18/2018							<0.1		0.23
2/20/2019	0.052 (J)	<0.1	<0.1	0.33	<0.1	0.034 (J)	<0.1	<0.1	0.2
4/1/2019	0.048 (J)	<0.1	<0.1	0.072 (J)					
4/2/2019					<0.1	0.045 (J)	0.05 (J)	<0.1	0.15 (J)
9/16/2019	0.065 (J)								
9/17/2019		0.04 (J)	0.028 (J)	0.1	<0.1	0.047 (J)	0.034 (J)	<0.1	0.14
2/18/2020									0.16
2/19/2020	0.064 (J)	0.027 (J)	0.026 (J)	0.13	<0.1	0.046 (J)		<0.1	
2/20/2020							<0.1		
3/23/2020								0.057 (J)	0.25
3/24/2020						0.058 (J)			
3/26/2020	0.081 (J)						0.091 (J)		
3/27/2020		0.045 (J)	0.041 (J)	0.13	0.027 (J)				
9/14/2020	0.042 (J)	<0.1							
9/15/2020			0.04 (J)	0.15	0.037 (J)	0.052 (J)	<0.1	<0.1	0.15
2/9/2021	0.074 (J)	<0.1	<0.1	0.14	<0.1				
2/10/2021						0.03 (J)	<0.1	<0.1	0.19
3/30/2021							0.1 (J)	<0.1	0.18
3/31/2021				0.12					
4/1/2021					<0.1	0.051 (J)			
4/6/2021			<0.1						
4/7/2021	0.066 (J)	0.053 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/18/2021						0.087 (J)	0.099 (J)		
8/19/2021		<0.1	<0.1	0.12	0.038 (J)			<0.1	0.17
8/20/2021	0.082 (J)								
2/10/2022	0.06 (J)				<0.1		0.039 (J)		
2/11/2022		0.045 (J)		0.14		0.064 (J)		<0.1	0.14
2/14/2022			0.035 (J)						
8/18/2022	0.052 (J)	0.038 (J)							
8/19/2022			<0.1	0.11					
8/22/2022								0.041 (J)	0.22
8/23/2022							0.1 (J)		
8/31/2022					0.058 (J)	0.058 (J)			
2/22/2023						0.06 (J)	0.061 (J)	0.046 (J)	0.13
2/23/2023	0.089 (J)	0.077 (J)	0.068 (J)	0.11	0.045 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				0.133 (J)	0.245 (J)	0.362	0.076 (J)		
5/12/2016	0.079 (J)	0.029 (J)	0.0341 (J)						
6/27/2016				0.21 (J)	0.23 (J)	0.45			
6/29/2016	0.15 (J)	0.04 (J)	0.04 (J)				0.13 (J)		
8/17/2016				0.14 (J)	0.22	0.54			
8/19/2016		<0.1	<0.2						
8/22/2016	0.083 (J)						<0.2		
10/17/2016				0.11 (J)		0.51			
10/18/2016	<0.2	<0.1	<0.2		0.24		<0.2		
12/6/2016				0.14 (J)	0.26	0.58			
12/7/2016	<0.2	<0.1	<0.2				<0.2		
2/14/2017				0.2	0.17 (J)	0.39			
2/15/2017			0.092 (J)						
2/16/2017	0.12 (J)	0.1 (J)					0.097 (J)		
4/12/2017				0.089 (J)	0.2	0.41			
4/13/2017	<0.2	<0.1	<0.2				<0.2		
6/27/2017				0.085 (J)	0.23	0.47	<0.2		
6/28/2017	0.1 (J)	<0.1	<0.2						
10/11/2017				0.089 (J)	0.21				
10/12/2017	<0.2	<0.1	<0.2			0.47	<0.2		
3/27/2018			<0.2	<0.2	0.19 (J)	0.4			
3/28/2018	<0.2	<0.1					<0.2		
6/6/2018				<0.2	0.2	0.4	<0.2		
6/7/2018	<0.2	<0.1	<0.2						
10/8/2018	<0.2	<0.1	<0.2	<0.2					
10/9/2018					0.2	0.47	<0.2		
10/18/2018								<0.1	<0.2
2/19/2019		<0.1	0.055 (J)						
2/20/2019	0.051 (J)			0.092 (J)	0.2	0.32	0.074 (J)		
4/1/2019					0.12 (J)	0.21	0.041 (J)		
4/2/2019	0.066 (J)	<0.1	0.036 (J)	0.1 (J)					
9/16/2019				0.099 (J)			0.057 (J)		
9/17/2019	0.077 (J)				0.2	0.47			
9/18/2019		0.028 (J)	0.044 (J)						
2/18/2020	0.073 (J)	<0.1	0.082 (J)	0.11	0.2	0.38			
2/19/2020							0.061 (J)		
3/23/2020	0.11								
3/24/2020		<0.1	0.081 (J)						
3/25/2020				0.13		0.31	0.079 (J)		
3/26/2020					0.14				
9/14/2020				0.076 (J)	0.11	0.29	0.037 (J)		
9/15/2020	0.061 (J)	<0.1	0.052 (J)						
2/9/2021				0.12	0.22	0.37	0.05 (J)		
2/10/2021	0.049 (J)	<0.1	0.046 (J)						
3/30/2021	0.074 (J)								
3/31/2021		<0.1	0.046 (J)				0.073 (J)		
4/1/2021				0.14	0.25	0.38			
8/18/2021	0.12	0.054 (J)	0.11	0.19	0.31	0.48			
8/19/2021							0.078 (J)		
2/9/2022				0.19	0.27			<0.1	0.028 (J)
2/10/2022		<0.1	0.066 (J)			0.44	0.098 (J)		
2/11/2022	0.092 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/18/2022					0.14	0.54	0.51		
8/19/2022				0.12					
8/22/2022	0.09 (J)	0.038 (J)	0.052 (J)						
8/24/2022								0.035 (J)	0.037 (J)
2/22/2023				0.11	0.16	0.52	0.076 (J)		
2/23/2023	0.087 (J)	0.075 (J)	0.089 (J)					0.06 (J)	
2/24/2023									0.042 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				<0.1				
10/17/2018	0.087 (J)							
10/18/2018					<0.2	<0.1	0.083 (J)	
2/8/2022		<0.1	<0.1					
2/9/2022	<0.1			<0.1	0.028 (J)		0.033 (J)	
2/10/2022						<0.1		0.15
8/22/2022							0.043 (J)	
8/23/2022	0.043 (J)	0.029 (J)				0.036 (J)		
8/24/2022			0.069 (J)	0.031 (J)	0.046 (J)			0.21
2/23/2023		0.043 (J)	0.042 (J)		0.049 (J)		0.079 (J)	
2/24/2023	0.062 (J)					0.047 (J)		0.083 (J)
2/28/2023				0.034 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
5/11/2016						<0.001		<0.001	<0.001
6/23/2016	<0.001	<0.001	0.0001 (J)				<0.001		
6/24/2016					<0.001	<0.001			
6/27/2016				<0.001					
6/28/2016								<0.001	<0.001
8/16/2016	<0.001	<0.001	<0.001		<0.001		<0.001		
8/17/2016				<0.001		<0.001		<0.001	<0.001
10/13/2016	<0.001		<0.001						
10/14/2016		<0.001		<0.001	<0.001		<0.001		
10/17/2016						<0.001		<0.001	<0.001
12/5/2016			<0.001						
12/6/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/14/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
2/15/2017								<0.001	<0.001
4/10/2017			<0.001						
4/11/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		
4/12/2017								<0.001	<0.001
6/26/2017	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		
6/27/2017				<0.001				<0.001	<0.001
3/26/2018	<0.001	<0.001	<0.001		<0.001				
3/27/2018				<0.001		<0.001	<0.001	<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001		
6/6/2018					<0.001	<0.001		<0.001	<0.001
10/5/2018	<0.001	<0.001	<0.001		<0.001				
10/8/2018				<0.001		<0.001	<0.001		
10/9/2018								<0.001	
10/16/2018									<0.001
2/18/2019	<0.001	<0.001				<0.001			
2/19/2019			<0.001	<0.001	<0.001		<0.001		
2/20/2019								<0.001	<0.001
3/28/2019				<0.001	<0.001	<0.001	<0.001		
3/29/2019	<0.001	<0.001	<0.001						
4/1/2019								<0.001	<0.001
9/12/2019							<0.001		
9/13/2019			0.00014 (J)						
9/16/2019	<0.001	<0.001		<0.001	0.00017 (J)	<0.001			<0.001
9/17/2019								0.00013 (J)	
2/13/2020	<0.001	<0.001	<0.001						
2/17/2020				<0.001			<0.001		
2/18/2020					<0.001	<0.001			<0.001
2/19/2020								0.00014 (J)	
3/17/2020		<0.001		<0.001	<0.001		<0.001		
3/18/2020	0.00022 (J)		0.00022 (J)			0.00021 (J)			
3/25/2020								<0.001	<0.001
9/14/2020	<0.001	<0.001	0.00014 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00013 (J)	<0.001
3/30/2021	<0.001	<0.001	<0.001						
3/31/2021					<0.001	<0.001	<0.001	<0.001	
4/7/2021				<0.001					<0.001
8/17/2021	<0.001	<0.001		<0.001		<0.001			
8/18/2021			0.00023 (J)		<0.001		0.0003 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								<0.001	<0.001
2/9/2022	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		
2/10/2022			<0.001						<0.001
2/11/2022								<0.001	
8/17/2022	0.00018 (J)	0.00044 (J)							
8/18/2022			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/19/2022								<0.001	
2/21/2023	<0.001				<0.001		<0.001		
2/22/2023		<0.001				<0.001		<0.001	<0.001
2/23/2023			<0.001	<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.001								
5/12/2016		<0.001	<0.001	<0.001	<0.001	<0.001			<0.001
5/13/2016							<0.001	<0.001	
6/28/2016	<0.001	<0.001	<0.001	<0.001	<0.001				
6/29/2016						<0.001		<0.001	0.0005 (J)
6/30/2016							<0.001		
8/18/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
8/22/2016							<0.001	<0.001	<0.001
10/17/2016	<0.001	<0.001	<0.001						
10/18/2016				<0.001	<0.001			<0.001	<0.001
10/19/2016						<0.001	<0.001		
12/6/2016	<0.001	<0.001							
12/7/2016			<0.001	<0.001	<0.001	<0.001	<0.001		
12/8/2016								<0.001	<0.001
2/15/2017	<0.001	<0.001	<0.001	<0.001		<0.001			
2/16/2017					<0.001		<0.001	<0.001	0.00035 (J)
4/12/2017	<0.001	<0.001	<0.001	<0.001					
4/13/2017					<0.001	<0.001	<0.001	<0.001	<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
6/28/2017							<0.001	<0.001	0.00041 (J)
3/27/2018	<0.001	0.00039 (J)	<0.001	<0.001	<0.001	<0.001			
3/28/2018							<0.001	<0.001	<0.001
6/6/2018	<0.001								
6/7/2018		<0.001	<0.001	<0.001	<0.001	<0.001			<0.001
6/8/2018							<0.001	<0.001	
10/8/2018	<0.001	<0.001	<0.001		<0.001	<0.001			
10/9/2018								<0.001	
10/16/2018				<0.001					
10/18/2018							<0.001		<0.001
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00027 (J)
4/1/2019	<0.001	<0.001	<0.001	<0.001					
4/2/2019					<0.001	<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001								
9/17/2019		<0.001	0.00016 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	0.00025 (J)
2/18/2020									0.00025 (J)
2/19/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/20/2020							<0.001		
3/23/2020								<0.001	0.00023 (J)
3/24/2020						<0.001			
3/26/2020	<0.001						<0.001		
3/27/2020		<0.001	0.00066 (J)	0.00023 (J)	0.00013 (J)				
9/14/2020	<0.001	<0.001							
9/15/2020			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00017 (J)
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001				
2/10/2021						0.00017 (J)	0.00029 (J)	<0.001	0.0003 (J)
3/30/2021							<0.001	<0.001	0.00018 (J)
3/31/2021				<0.001					
4/1/2021					<0.001	<0.001			
4/6/2021			<0.001						
4/7/2021	<0.001	<0.001							
8/18/2021						<0.001	0.00071 (J)		
8/19/2021		<0.001	<0.001	<0.001	<0.001			<0.001	0.00034 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.001								
2/10/2022	0.0002 (J)				<0.001		<0.001		
2/11/2022		<0.001		<0.001		<0.001		0.00033 (J)	0.00021 (J)
2/14/2022			<0.001						
8/18/2022	<0.001	<0.001							
8/19/2022			0.00028 (J)	<0.001					
8/22/2022								<0.001	0.00028 (J)
8/23/2022							<0.001		
8/31/2022					<0.001	<0.001			
2/22/2023						<0.001	<0.001	<0.001	<0.001
2/23/2023	<0.001	<0.001	<0.001	<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.001	<0.001	<0.001	<0.001		
5/12/2016	<0.001	<0.001	<0.001						
6/27/2016				<0.001	<0.001	<0.001			
6/29/2016	9E-05 (J)	<0.001	9E-05 (J)				<0.001		
8/17/2016				<0.001	0.00085 (J)	<0.001			
8/19/2016		<0.001	<0.001						
8/22/2016	<0.001						<0.001		
10/17/2016				<0.001		<0.001			
10/18/2016	<0.001	<0.001	<0.001		<0.001		<0.001		
12/6/2016				<0.001	<0.001	<0.001			
12/7/2016	<0.001	<0.001	<0.001				<0.001		
2/14/2017				<0.001	<0.001	<0.001			
2/15/2017			<0.001						
2/16/2017	<0.001	<0.001					<0.001		
4/12/2017				<0.001	<0.001	<0.001			
4/13/2017	<0.001	<0.001	<0.001				<0.001		
6/27/2017				<0.001	<0.001	<0.001	<0.001		
6/28/2017	<0.001	<0.001	<0.001						
3/27/2018			<0.001	<0.001	<0.001	<0.001			
3/28/2018	<0.001	<0.001					<0.001		
6/6/2018				<0.001	<0.001	<0.001	<0.001		
6/7/2018	<0.001	<0.001	<0.001						
10/8/2018	<0.001	<0.001	<0.001	<0.001					
10/9/2018					<0.001	<0.001	<0.001		
10/18/2018								<0.001	<0.001
2/19/2019		<0.001	<0.001						
2/20/2019	<0.001			<0.001	<0.001	<0.001	<0.001		
4/1/2019					<0.001	<0.001	<0.001		
4/2/2019	<0.001	<0.001	<0.001	<0.001					
9/16/2019				<0.001			<0.001		
9/17/2019	<0.001				<0.001	<0.001			
9/18/2019		<0.001	<0.001						
2/18/2020	<0.001	0.00018 (J)	<0.001	<0.001	<0.001	<0.001			
2/19/2020							<0.001		
3/23/2020	<0.001								
3/24/2020		<0.001	<0.001						
3/25/2020				0.0002 (J)		0.00029 (J)	<0.001		
3/26/2020					<0.001				
9/14/2020				<0.001	<0.001	<0.001	<0.001		
9/15/2020	0.00022 (J)	0.00019 (J)	<0.001						
2/9/2021				<0.001	0.00014 (J)	0.00062 (J)	<0.001		
2/10/2021	0.00016 (J)	0.00016 (J)	<0.001						
3/30/2021	0.0002 (J)								
3/31/2021		0.00015 (J)	<0.001				<0.001		
4/1/2021				<0.001	0.00015 (J)	<0.001			
8/18/2021	0.00041 (J)	<0.001	<0.001	<0.001	<0.001	<0.001			
8/19/2021							<0.001		
2/9/2022				<0.001	<0.001			<0.001	<0.001
2/10/2022		<0.001	<0.001			<0.001	<0.001		
2/11/2022	<0.001								
8/18/2022					<0.001	<0.001	<0.001		
8/19/2022				<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	0.0002 (J)	0.00017 (J)	<0.001						
8/24/2022								<0.001	<0.001
2/22/2023				<0.001	<0.001	<0.001	<0.001		
2/23/2023	<0.001	<0.001	<0.001					<0.001	
2/24/2023									<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				<0.001				
10/17/2018	<0.001							
10/18/2018					<0.001	<0.001	<0.001	
2/8/2022		<0.001	<0.001					
2/9/2022	<0.001			<0.001	<0.001		<0.001	
2/10/2022						<0.001		<0.001
8/22/2022							0.00019 (J)	
8/23/2022	<0.001	<0.001				<0.001		
8/24/2022			<0.001	<0.001	<0.001			<0.001
2/23/2023		<0.001	<0.001		<0.001		<0.001	
2/24/2023	<0.001					<0.001		<0.001
2/28/2023				<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005		
5/11/2016						<0.005		<0.005	<0.005
6/23/2016	0.0013 (J)	<0.005	<0.005				<0.005		
6/24/2016					<0.005	<0.005			
6/27/2016				<0.005					
6/28/2016								<0.005	0.0013 (J)
8/16/2016	<0.005	<0.005	<0.005		<0.005		<0.005		
8/17/2016				<0.005		<0.005		<0.005	<0.005
10/13/2016	<0.005		<0.005						
10/14/2016		<0.005		<0.005	<0.005		<0.005		
10/17/2016						<0.005		<0.005	<0.005
12/5/2016			<0.005						
12/6/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
2/15/2017								<0.005	<0.005
4/10/2017			<0.005						
4/11/2017	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		
4/12/2017								<0.005	<0.005
6/26/2017	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005		
6/27/2017				<0.005				<0.005	<0.005
3/26/2018	0.0024 (J)	<0.005	<0.005		0.0013 (J)				
3/27/2018				<0.005		<0.005	0.0017 (J)	<0.005	0.0029 (J)
6/5/2018	0.0018 (J)	<0.005	0.0011 (J)	0.0015 (J)			<0.005		
6/6/2018					<0.005	<0.005		<0.005	0.0017 (J)
10/5/2018	0.0018 (J)	<0.005	0.0012 (J)		<0.005				
10/8/2018				<0.005		<0.005	<0.005		
10/9/2018								<0.005	
10/16/2018									0.0031 (J)
2/18/2019	<0.005	<0.005				<0.005			
2/19/2019			<0.005	<0.005	<0.005		<0.005		
2/20/2019								<0.005	0.0031 (J)
3/28/2019				<0.005	<0.005	<0.005	<0.005		
3/29/2019	<0.005	<0.005	<0.005						
4/1/2019								<0.005	0.0017 (J)
9/12/2019							<0.005		
9/13/2019			<0.005						
9/16/2019	0.0034	<0.005		<0.005	<0.005	<0.005			<0.005
9/17/2019								<0.005	
2/13/2020	<0.005	<0.005	<0.005						
2/17/2020				<0.005			<0.005		
2/18/2020					<0.005	<0.005			<0.005
2/19/2020								<0.005	
3/17/2020		<0.005		<0.005	<0.005		<0.005		
3/18/2020	<0.005		<0.005			<0.005			
3/25/2020								<0.005	<0.005
9/14/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/30/2021	<0.005	<0.005	<0.005						
3/31/2021					<0.005	<0.005	<0.005	<0.005	
4/7/2021				<0.005					<0.005
8/17/2021	<0.005	<0.005		<0.005		<0.005			
8/18/2021			<0.005		<0.005		<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								<0.005	<0.005
2/9/2022	0.0011 (J)	<0.005		<0.005	<0.005	<0.005	0.00094 (J)		
2/10/2022			<0.005						0.0022 (J)
2/11/2022								<0.005	
8/17/2022	0.0035 (J)	0.0016 (J)							
8/18/2022			0.0015 (J)	0.0014 (J)	0.0012 (J)	0.00086 (J)	0.0019 (J)		0.0033 (J)
8/19/2022								0.0011 (J)	
2/21/2023	0.0022 (J)				<0.005		0.002 (J)		
2/22/2023		<0.005				<0.005		<0.005	0.0024 (J)
2/23/2023			0.0022 (J)	0.002 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.005								
5/12/2016		<0.005	<0.005	<0.005	<0.005	<0.005			<0.05 (O)
5/13/2016							<0.005	<0.005	
6/28/2016	<0.005	<0.005	<0.005	0.0024 (J)	<0.005				
6/29/2016						<0.005		<0.005	0.0043 (J)
6/30/2016							0.0032 (J)		
8/18/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
8/22/2016							<0.005	<0.005	0.0051
10/17/2016	<0.005	<0.005	<0.005						
10/18/2016				<0.005	<0.005			<0.005	0.0038 (J)
10/19/2016						<0.005	0.0042 (J)		
12/6/2016	<0.005	<0.005							
12/7/2016			<0.005	<0.005	<0.005	<0.005	<0.005		
12/8/2016								<0.005	0.0043 (J)
2/15/2017	<0.005	<0.005	<0.005	<0.005		<0.005			
2/16/2017					<0.005		0.0034 (J)	<0.005	0.0047 (J)
4/12/2017	<0.005	<0.005	<0.005	<0.005					
4/13/2017					<0.005	<0.005	<0.005	<0.005	0.004 (J)
6/27/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
6/28/2017							<0.005	<0.005	0.0032 (J)
3/27/2018	<0.005	<0.005	<0.005	0.0034 (J)	<0.005	0.0014 (J)			
3/28/2018							0.0056	<0.005	0.0053
6/6/2018	<0.005								
6/7/2018		<0.005	<0.005	0.003 (J)	<0.005	<0.005			0.0038 (J)
6/8/2018							0.0042 (J)	0.0022 (J)	
10/8/2018	<0.005	0.0014 (J)	0.0011 (J)		0.0015 (J)	<0.005			
10/9/2018								<0.005	
10/16/2018				0.0034 (J)					
10/18/2018							0.0054		0.0062
2/20/2019	<0.005	<0.005	<0.005	0.0038 (J)	<0.005	<0.005	0.0054	<0.005	0.0048 (J)
4/1/2019	0.0011 (J)	<0.005	<0.005	0.0025 (J)					
4/2/2019					<0.005	<0.005	0.0041 (J)	0.0021 (J)	0.0046 (J)
9/16/2019	<0.005								
9/17/2019		<0.005	<0.005	0.0037	<0.005	<0.005	0.005	<0.005	0.0042
2/18/2020									0.0036 (J)
2/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
2/20/2020							0.0045 (J)		
3/23/2020								<0.005	0.0045 (J)
3/24/2020						<0.005			
3/26/2020	<0.005						0.0046 (J)		
3/27/2020		<0.005	<0.005	0.0038 (J)	<0.005				
9/14/2020	<0.005	<0.005							
9/15/2020			<0.005	0.0037 (J)	<0.005	<0.005	0.0049 (J)	<0.005	0.0037 (J)
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005				
2/10/2021						<0.005	0.0055	<0.005	0.0047 (J)
3/30/2021							0.0043 (J)	<0.005	<0.005
3/31/2021				<0.005					
4/1/2021					<0.005	<0.005			
4/6/2021			<0.005						
4/7/2021	<0.005	<0.005							
8/18/2021						<0.005	0.0047 (J)		
8/19/2021		<0.005	<0.005	<0.005	<0.005			<0.005	0.0046 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.005								
2/10/2022	<0.005				<0.005		0.0039 (J)		
2/11/2022		<0.005		0.0027 (J)		<0.005		0.0072	0.0037 (J)
2/14/2022			<0.005						
8/18/2022	0.0012 (J)	0.0012 (J)							
8/19/2022			0.0015 (J)	0.0038 (J)					
8/22/2022								0.0012 (J)	0.003 (J)
8/23/2022							0.0032 (J)		
8/31/2022					0.0012 (J)	<0.005			
2/22/2023						<0.005	0.0035 (J)	0.0015 (J)	0.0025 (J)
2/23/2023	<0.005	<0.005	<0.005	0.0022 (J)	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.005	<0.05 (O)	<0.005	<0.005		
5/12/2016	<0.005	<0.005	<0.005						
6/27/2016				<0.005	0.0031 (J)	0.0013 (J)			
6/29/2016	<0.005	<0.005	0.0027 (J)				<0.005		
8/17/2016				<0.005	0.0046 (J)	<0.005			
8/19/2016		<0.005	<0.005						
8/22/2016	<0.005						<0.005		
10/17/2016				<0.005		<0.005			
10/18/2016	<0.005	<0.005	0.0032 (J)		0.0036 (J)		<0.005		
12/6/2016				<0.005	0.0043 (J)	<0.005			
12/7/2016	<0.005	<0.005	0.0043 (J)				<0.005		
2/14/2017				<0.005	0.0043 (J)	<0.005			
2/15/2017			<0.005						
2/16/2017	<0.005	<0.005					<0.005		
4/12/2017				<0.005	0.0051	<0.005			
4/13/2017	<0.005	<0.005	0.0036 (J)				<0.005		
6/27/2017				<0.005	0.0033 (J)	<0.005	<0.005		
6/28/2017	<0.005	<0.005	0.0032 (J)						
3/27/2018			0.005	<0.005	0.0061	0.0023 (J)			
3/28/2018	0.0038 (J)	0.0033 (J)					<0.005		
6/6/2018				<0.005	0.004 (J)	0.0018 (J)	<0.005		
6/7/2018	0.0013 (J)	<0.005	0.0027 (J)						
10/8/2018	0.0019 (J)	0.0011 (J)	0.0035 (J)	<0.005					
10/9/2018					0.0053	0.002 (J)	<0.005		
10/18/2018								0.0029 (J)	0.0015 (J)
2/19/2019		<0.005	<0.005						
2/20/2019	<0.005			<0.005	0.006	<0.005	<0.005		
4/1/2019					0.0058	0.0021 (J)	<0.005		
4/2/2019	0.0027 (J)	0.0026 (J)	0.0041 (J)	<0.005					
9/16/2019				<0.005			<0.005		
9/17/2019	<0.005				0.0049	<0.005			
9/18/2019		<0.005	0.0043						
2/18/2020	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005			
2/19/2020							<0.005		
3/23/2020	<0.005								
3/24/2020		<0.005	<0.005						
3/25/2020				<0.005		<0.005	<0.005		
3/26/2020					0.006				
9/14/2020				<0.005	0.0051	<0.005	<0.005		
9/15/2020	<0.005	<0.005	<0.005						
2/9/2021				<0.005	0.0052	<0.005	<0.005		
2/10/2021	<0.005	<0.005	<0.005						
3/30/2021	<0.005								
3/31/2021		<0.005	<0.005				<0.005		
4/1/2021				<0.005	0.0053	<0.005			
8/18/2021	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	<0.005			
8/19/2021							<0.005		
2/9/2022				0.0013 (J)	0.0048 (J)			<0.005	0.0031 (J)
2/10/2022		<0.005	0.0029 (J)			0.0015 (J)	<0.005		
2/11/2022	0.0011 (J)								
8/18/2022					0.0061	0.0025 (J)	0.0014 (J)		
8/19/2022				0.0023 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	<0.005	0.00087 (J)	0.002 (J)						
8/24/2022								0.00099 (J)	0.0032 (J)
2/22/2023				<0.005	0.0056	0.0014 (J)	<0.005		
2/23/2023	<0.005	0.0019 (J)	0.0042 (J)					<0.005	
2/24/2023									0.0046 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				0.069				
10/17/2018	0.0027 (J)							
10/18/2018					0.0017 (J)	0.015	0.004 (J)	
3/2/2020				<0.005				
4/2/2021		<0.005						
4/7/2021				0.02				
8/18/2021		<0.005		0.0095				
2/8/2022		0.0015 (J)	0.0025 (J)					
2/9/2022	0.012			0.01	<0.005		0.0026 (J)	
2/10/2022						0.01		0.0029 (J)
8/22/2022							0.0036 (J)	
8/23/2022	0.022	0.0011 (J)				0.01		
8/24/2022			0.0023 (J)	0.011	<0.005			0.0025 (J)
2/23/2023		0.0022 (J)	0.0033 (J)		0.0016 (J)		0.0064	
2/24/2023	0.0071					0.011		0.0026 (J)
2/28/2023				0.014				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
5/11/2016						<0.0002		<0.0002	<0.0002
6/23/2016	<0.0002	<0.0002	<0.0002				<0.0002		
6/24/2016					<0.0002	<0.0002			
6/27/2016				<0.0002					
6/28/2016								<0.0002	<0.0002
8/16/2016	<0.0002	<0.0002	<0.0002		<0.0002		7.2E-05 (J)		
8/17/2016				<0.0002		<0.0002		<0.0002	<0.0002
10/13/2016	<0.0002		<0.0002						
10/14/2016		<0.0002		<0.0002	<0.0002		<0.0002		
10/17/2016						<0.0002		<0.0002	<0.0002
12/5/2016			0.00012 (J)						
12/6/2016	0.00012 (J)	0.00011 (J)		0.00011 (J)	8.7E-05 (J)	0.00011 (J)	0.00012 (J)	0.00013 (J)	0.0001 (J)
2/14/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/15/2017								<0.0002	<0.0002
4/10/2017			<0.0002						
4/11/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
4/12/2017								<0.0002	<0.0002
6/26/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		
6/27/2017				<0.0002				<0.0002	<0.0002
3/26/2018	8.9E-05 (J)	<0.0002	<0.0002		<0.0002				
3/27/2018				<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/5/2018	<0.0002	<0.0002	<0.0002	7.5E-05 (J)			<0.0002		
6/6/2018					<0.0002	<0.0002		<0.0002	<0.0002
10/5/2018	<0.0002	<0.0002	<0.0002		<0.0002				
10/8/2018				<0.0002		<0.0002	<0.0002		
10/9/2018								<0.0002	
10/16/2018									<0.0002
2/18/2019	<0.0002	<0.0002				<0.0002			
2/19/2019			<0.0002	<0.0002	<0.0002		<0.0002		
2/20/2019								<0.0002	<0.0002
3/28/2019				<0.0002	<0.0002	<0.0002	<0.0002		
3/29/2019	7E-05 (J)	<0.0002	<0.0002						
4/1/2019								<0.0002	<0.0002
9/12/2019							<0.0002		
9/13/2019			<0.0002						
9/16/2019	<0.0002	<0.0002		<0.0002	0.0005	0.00027			<0.0002
9/17/2019								<0.0002	
12/3/2019					<0.0002	<0.0002			
2/13/2020	<0.0002	<0.0002	<0.0002						
2/17/2020				<0.0002			<0.0002		
2/18/2020					<0.0002	<0.0002			<0.0002
2/19/2020								<0.0002	
3/17/2020		<0.0002		<0.0002	<0.0002		<0.0002		
3/18/2020	<0.0002		<0.0002			<0.0002			
3/25/2020								<0.0002	<0.0002
9/14/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/30/2021	<0.0002	<0.0002	<0.0002						
3/31/2021					<0.0002	<0.0002	<0.0002	<0.0002	
4/7/2021				<0.0002					<0.0002
8/17/2021	<0.0002	<0.0002		<0.0002		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/18/2021			<0.0002		<0.0002		<0.0002		
8/19/2021								<0.0002	<0.0002
2/9/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
2/10/2022			<0.0002						<0.0002
2/11/2022								<0.0002	
8/17/2022	<0.0002	<0.0002							
8/18/2022			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/19/2022								<0.0002	
2/21/2023	<0.0002				<0.0002		<0.0002		
2/22/2023		<0.0002				<0.0002		<0.0002	<0.0002
2/23/2023			<0.0002	<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.0002								
5/12/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
5/13/2016							<0.0002	<0.0002	
6/28/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
6/29/2016						<0.0002		<0.0002	<0.0002
6/30/2016							<0.0002		
8/18/2016	<0.0002	<0.0002	<0.0002	0.00011 (J)	<0.0002	<0.0002			
8/22/2016							0.00014 (J)	<0.0002	7.3E-05 (J)
10/17/2016	<0.0002	<0.0002	8.9E-05 (J)						
10/18/2016				0.00012 (J)	<0.0002			<0.0002	<0.0002
10/19/2016						<0.0002	<0.0002		
12/6/2016	9.3E-05 (J)	0.00011 (J)							
12/7/2016			0.00012 (J)	0.00017 (J)	7.6E-05 (J)	0.00011 (J)	0.00014 (J)		
12/8/2016								<0.0002	<0.0002
2/15/2017	<0.0002	<0.0002	<0.0002	0.00011 (J)		<0.0002			
2/16/2017					<0.0002		8.4E-05 (J)	<0.0002	<0.0002
4/12/2017	<0.0002	<0.0002	<0.0002	7.2E-05 (J)					
4/13/2017					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002	8.4E-05 (J)	<0.0002	<0.0002			
6/28/2017							<0.0002	<0.0002	<0.0002
3/27/2018	<0.0002	<0.0002	0.0001 (J)	0.00014 (J)	<0.0002	<0.0002			
3/28/2018							8.3E-05 (J)	<0.0002	<0.0002
6/6/2018	<0.0002								
6/7/2018		<0.0002	<0.0002	0.00013 (J)	<0.0002	0.00011 (J)			8.2E-05 (J)
6/8/2018							0.00014 (J)	<0.0002	
10/8/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002			
10/9/2018								<0.0002	
10/16/2018				<0.0002					
10/18/2018							0.00021		<0.0002
2/20/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00026	<0.0002	<0.0002
4/1/2019	<0.0002	<0.0002	<0.0002	<0.0002					
4/2/2019					<0.0002	<0.0002	0.0002	<0.0002	<0.0002
9/16/2019	<0.0002								
9/17/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00014 (J)	<0.0002	<0.0002
2/18/2020									<0.0002
2/19/2020	<0.0002	<0.0002	0.0002	0.00016 (J)	<0.0002	<0.0002		<0.0002	
2/20/2020							0.00022		
3/23/2020								<0.0002	<0.0002
3/24/2020						<0.0002			
3/26/2020	<0.0002						0.00019 (J)		
3/27/2020		<0.0002	<0.0002	0.00011 (J)	<0.0002				
9/14/2020	<0.0002	<0.0002							
9/15/2020			<0.0002	<0.0002	<0.0002	<0.0002	0.00013 (J)	<0.0002	<0.0002
2/9/2021	<0.0002	<0.0002	<0.0002	0.00013 (J)	<0.0002				
2/10/2021						<0.0002	0.00018 (J)	<0.0002	<0.0002
3/30/2021							0.00022	<0.0002	0.00013 (J)
3/31/2021				0.00018 (J)					
4/1/2021					<0.0002	<0.0002			
4/6/2021			<0.0002						
4/7/2021	<0.0002	<0.0002							
8/18/2021						0.00017 (J)	0.00022		
8/19/2021		<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.0002								
2/10/2022	<0.0002				<0.0002		<0.0002		
2/11/2022		<0.0002		<0.0002		<0.0002		<0.0002	<0.0002
2/14/2022			<0.0002						
8/18/2022	<0.0002	<0.0002							
8/19/2022			<0.0002	<0.0002					
8/31/2022					<0.0002	0.00013 (J)			
10/31/2022							<0.0002	<0.0002	<0.0002
2/22/2023						<0.0002	<0.0002	<0.0002	<0.0002
2/23/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.0002	<0.0002	<0.0002	<0.0002		
5/12/2016	<0.0002	<0.0002	<0.0002						
6/27/2016				<0.0002	<0.0002	<0.0002			
6/29/2016	<0.0002	<0.0002	<0.0002				<0.0002		
8/17/2016				<0.0002	<0.0002	<0.0002			
8/19/2016		<0.0002	7.1E-05 (J)						
8/22/2016	<0.0002						<0.0002		
10/17/2016				<0.0002		<0.0002			
10/18/2016	<0.0002	<0.0002	<0.0002		<0.0002		<0.0002		
12/6/2016				0.00011 (J)	0.00011 (J)	7.6E-05 (J)			
12/7/2016	0.0001 (J)	9.9E-05 (J)	0.00011 (J)				0.0001 (J)		
2/14/2017				<0.0002	<0.0002	<0.0002			
2/15/2017			<0.0002						
2/16/2017	<0.0002	<0.0002					<0.0002		
4/12/2017				<0.0002	<0.0002	<0.0002			
4/13/2017	<0.0002	<0.0002	<0.0002				<0.0002		
6/27/2017				<0.0002	<0.0002	<0.0002	<0.0002		
6/28/2017	<0.0002	<0.0002	<0.0002						
3/27/2018			<0.0002	<0.0002	<0.0002	<0.0002			
3/28/2018	<0.0002	<0.0002					<0.0002		
6/6/2018				<0.0002	<0.0002	<0.0002	<0.0002		
6/7/2018	<0.0002	<0.0002	0.00028						
10/8/2018	<0.0002	<0.0002	<0.0002	<0.0002					
10/9/2018					<0.0002	<0.0002	<0.0002		
10/18/2018								<0.0002	<0.0002
2/19/2019		<0.0002	<0.0002						
2/20/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002		
4/1/2019					<0.0002	<0.0002	<0.0002		
4/2/2019	<0.0002	<0.0002	<0.0002	<0.0002					
9/16/2019				<0.0002			<0.0002		
9/17/2019	<0.0002				<0.0002	<0.0002			
9/18/2019		<0.0002	<0.0002						
2/18/2020	<0.0002	<0.0002	0.00011 (J)	<0.0002	<0.0002	<0.0002			
2/19/2020							<0.0002		
3/23/2020	<0.0002								
3/24/2020		<0.0002	<0.0002						
3/25/2020				<0.0002		<0.0002	<0.0002		
3/26/2020					<0.0002				
9/14/2020				<0.0002	<0.0002	<0.0002	<0.0002		
9/15/2020	<0.0002	<0.0002	<0.0002						
2/9/2021				<0.0002	<0.0002	<0.0002	<0.0002		
2/10/2021	<0.0002	<0.0002	<0.0002						
3/30/2021	<0.0002								
3/31/2021		<0.0002	<0.0002				<0.0002		
4/1/2021				<0.0002	<0.0002	<0.0002			
8/18/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/19/2021							<0.0002		
2/9/2022				<0.0002	<0.0002			<0.0002	<0.0002
2/10/2022		<0.0002	<0.0002			<0.0002	<0.0002		
2/11/2022	<0.0002								
8/18/2022					<0.0002	<0.0002	<0.0002		
8/19/2022				<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/24/2022								<0.0002	<0.0002
10/31/2022	<0.0002	<0.0002	<0.0002						
2/22/2023				<0.0002	<0.0002	<0.0002	<0.0002		
2/23/2023	<0.0002	<0.0002	<0.0002					<0.0002	
2/24/2023									<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				8.4E-05 (J)				
10/17/2018	<0.0002							
10/18/2018					<0.0002	<0.0002	<0.0002	
2/8/2022		<0.0002	0.00022					
2/9/2022	<0.0002			<0.0002	<0.0002		<0.0002	
2/10/2022						<0.0002		<0.0002
8/24/2022			0.00024	<0.0002	<0.0002			<0.0002
10/31/2022	<0.0002	<0.0002				<0.0002	<0.0002	
2/23/2023		<0.0002	0.00015 (J)		<0.0002		<0.0002	
2/24/2023	<0.0002					<0.0002		<0.0002
2/28/2023				<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015		
5/11/2016						0.00278 (J)		<0.015	<0.015
6/23/2016	<0.015	<0.015	<0.015				<0.015		
6/24/2016					<0.015	0.0022 (J)			
6/27/2016				<0.015					
6/28/2016								<0.015	<0.015
8/16/2016	<0.015	<0.015	<0.015		<0.015		<0.015		
8/17/2016				<0.015		0.0018 (J)		<0.015	<0.015
10/13/2016	<0.015		<0.015						
10/14/2016		<0.015		<0.015	<0.015		<0.015		
10/17/2016						0.0014 (J)		<0.015	<0.015
12/5/2016			<0.015						
12/6/2016	<0.015	<0.015		<0.015	<0.015	0.00095 (J)	<0.015	<0.015	<0.015
2/14/2017	<0.015	<0.015	<0.015	<0.015	0.0011 (J)	<0.015	<0.015		
2/15/2017								<0.015	<0.015
4/10/2017			<0.015						
4/11/2017	<0.015	<0.015		<0.015	<0.015	0.0011 (J)	<0.015		
4/12/2017								<0.015	<0.015
6/26/2017	<0.015	<0.015	<0.015		<0.015	0.0016 (J)	<0.015		
6/27/2017				<0.015				<0.015	<0.015
3/26/2018	<0.015	<0.015	<0.015		<0.015				
3/27/2018				<0.015		<0.015	<0.015	<0.015	<0.015
10/5/2018	<0.015	<0.015	<0.015		<0.015				
10/8/2018				<0.015		<0.015	<0.015		
10/9/2018								<0.015	
10/16/2018									<0.015
2/18/2019	<0.015	<0.015				0.00085 (J)			
2/19/2019			<0.015	<0.015	<0.015		<0.015		
2/20/2019								<0.015	<0.015
3/28/2019				<0.015	<0.015	<0.015	<0.015		
3/29/2019	<0.015	<0.015	<0.015						
4/1/2019								<0.015	<0.015
9/12/2019							<0.015		
9/13/2019			<0.015						
9/16/2019	<0.015	<0.015		<0.015	<0.015	0.00069 (J)			<0.015
9/17/2019								<0.015	
2/13/2020	<0.015	<0.015	<0.015						
2/17/2020				<0.015			<0.015		
2/18/2020					<0.015	0.00075 (J)			<0.015
2/19/2020								<0.015	
3/17/2020		<0.015		<0.015	<0.015		<0.015		
3/18/2020	<0.015		<0.015			0.00064 (J)			
3/25/2020								<0.015	<0.015
9/14/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2/9/2021	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
3/30/2021	<0.015	<0.015	<0.015						
3/31/2021					<0.015	<0.015	<0.015	<0.015	
4/7/2021				<0.015					<0.015
8/17/2021	<0.015	<0.015		<0.015		<0.015			
8/18/2021			<0.015		<0.015		<0.015		
8/19/2021								<0.015	<0.015
2/9/2022	<0.015	<0.015		<0.015	<0.015	<0.015	<0.015		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/10/2022			<0.015						<0.015
2/11/2022								<0.015	
8/17/2022	<0.015	<0.015							
8/18/2022			<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
8/19/2022								<0.015	
2/21/2023	<0.015				<0.015		<0.015		
2/22/2023		<0.015				<0.015		<0.015	<0.015
2/23/2023			<0.015	<0.015					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.015								
5/12/2016		<0.015	<0.015	<0.015	<0.015	<0.015			<0.015
5/13/2016							<0.015	<0.015	
6/28/2016	0.0012 (J)	<0.015	<0.015	<0.015	<0.015				
6/29/2016						<0.015		<0.015	<0.015
6/30/2016							<0.015		
8/18/2016	0.0011 (J)	<0.015	<0.015	<0.015	<0.015	<0.015			
8/22/2016							<0.015	<0.015	<0.015
10/17/2016	<0.015	<0.015	<0.015						
10/18/2016				<0.015	<0.015			<0.015	<0.015
10/19/2016						<0.015	<0.015		
12/6/2016	<0.015	<0.015							
12/7/2016			<0.015	<0.015	<0.015	<0.015	<0.015		
12/8/2016								<0.015	<0.015
2/15/2017	<0.015	<0.015	0.003 (J)	<0.015		<0.015			
2/16/2017					<0.015		<0.015	<0.015	<0.015
4/12/2017	<0.015	<0.015	<0.015	<0.015					
4/13/2017					<0.015	<0.015	<0.015	<0.015	<0.015
6/27/2017	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015			
6/28/2017							<0.015	<0.015	<0.015
3/27/2018	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015			
3/28/2018							<0.015	<0.015	<0.015
10/8/2018	<0.015	<0.015	<0.015		<0.015	<0.015			
10/9/2018								<0.015	
10/16/2018				<0.015					
10/18/2018							<0.015		<0.015
2/20/2019	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
4/1/2019	<0.015	<0.015	<0.015	<0.015					
4/2/2019					<0.015	<0.015	<0.015	<0.015	<0.015
9/16/2019	<0.015								
9/17/2019		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2/18/2020									<0.015
2/19/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015	
2/20/2020							<0.015		
3/23/2020								<0.015	<0.015
3/24/2020						<0.015			
3/26/2020	<0.015						<0.015		
3/27/2020		<0.015	0.00081 (J)	<0.015	<0.015				
9/14/2020	<0.015	<0.015							
9/15/2020			<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2/9/2021	<0.015	<0.015	<0.015	<0.015	<0.015				
2/10/2021						<0.015	<0.015	<0.015	<0.015
3/30/2021							<0.015	<0.015	<0.015
3/31/2021				<0.015					
4/1/2021					<0.015	<0.015			
4/6/2021			<0.015						
4/7/2021	<0.015	<0.015							
8/18/2021						<0.015	<0.015		
8/19/2021		<0.015	<0.015	<0.015	<0.015			<0.015	<0.015
8/20/2021	<0.015								
2/10/2022	<0.015				<0.015		<0.015		
2/11/2022		<0.015		<0.015		<0.015		<0.015	<0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 2:12 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
2/14/2022			<0.015						
8/18/2022	<0.015	<0.015							
8/19/2022			<0.015	<0.015					
8/22/2022								<0.015	<0.015
8/23/2022							<0.015		
8/31/2022					<0.015	<0.015			
2/22/2023						<0.015	<0.015	<0.015	<0.015
2/23/2023	<0.015	<0.015	<0.015	<0.015	<0.015				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.015	0.00343 (J)	<0.015	<0.015		
5/12/2016	<0.015	<0.015	<0.015						
6/27/2016				0.0007 (J)	0.0033 (J)	0.0008 (J)			
6/29/2016	<0.015	<0.015	<0.015				0.0021 (J)		
8/17/2016				<0.015	0.002 (J)	<0.015			
8/19/2016		<0.015	<0.015						
8/22/2016	<0.015						0.00099 (J)		
10/17/2016				<0.015		<0.015			
10/18/2016	<0.015	<0.015	<0.015		0.0012 (J)		0.0014 (J)		
12/6/2016				<0.015	0.0021 (J)	<0.015			
12/7/2016	<0.015	<0.015	<0.015				0.001 (J)		
2/14/2017				<0.015	<0.015	<0.015			
2/15/2017			<0.015						
2/16/2017	<0.015	<0.015					<0.015		
4/12/2017				<0.015	0.0033 (J)	<0.015			
4/13/2017	<0.015	<0.015	<0.015				0.001 (J)		
6/27/2017				0.00099 (J)	0.0021 (J)	<0.015	<0.015		
6/28/2017	<0.015	<0.015	<0.015						
3/27/2018			<0.015	<0.015	<0.015	<0.015			
3/28/2018	<0.015	<0.015					<0.015		
10/8/2018	<0.015	<0.015	<0.015	<0.015					
10/9/2018					<0.015	<0.015	<0.015		
2/19/2019		<0.015	<0.015						
2/20/2019	<0.015			<0.015	0.0013 (J)	<0.015	0.00075 (J)		
4/1/2019					<0.015	<0.015	<0.015		
4/2/2019	<0.015	<0.015	<0.015	<0.015					
9/16/2019				<0.015			0.00067 (J)		
9/17/2019	<0.015				0.0014 (J)	<0.015			
9/18/2019		<0.015	<0.015						
2/18/2020	<0.015	<0.015	<0.015	<0.015	0.0014 (J)	<0.015			
2/19/2020							0.00063 (J)		
3/23/2020	<0.015								
3/24/2020		<0.015	<0.015						
3/25/2020				<0.015		<0.015	<0.015		
3/26/2020					0.001 (J)				
9/14/2020				<0.015	0.0012 (J)	<0.015	<0.015		
9/15/2020	<0.015	<0.015	<0.015						
2/9/2021				<0.015	0.0014 (J)	<0.015	0.00063 (J)		
2/10/2021	<0.015	<0.015	<0.015						
3/30/2021	<0.015								
3/31/2021		<0.015	<0.015				<0.015		
4/1/2021				<0.015	0.0009 (J)	<0.015			
8/18/2021	<0.015	<0.015	<0.015	<0.015	0.0016 (J)	<0.015			
8/19/2021							<0.015		
2/9/2022				<0.015	0.0012 (J)			<0.015	<0.015
2/10/2022		<0.015	<0.015			<0.015	<0.015		
2/11/2022	<0.015								
8/18/2022					0.0011 (J)	0.00073 (J)	<0.015		
8/19/2022				<0.015					
8/22/2022	<0.015	<0.015	<0.015						
8/24/2022								<0.015	<0.015
2/22/2023				<0.015	<0.015	<0.015	<0.015		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
2/23/2023	<0.015	<0.015	0.00062 (J)					<0.015	
2/24/2023									<0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
2/8/2022		<0.015	<0.015					
2/9/2022	0.0011 (J)			<0.015	<0.015		0.0057 (J)	
2/10/2022						<0.015		0.0017 (J)
8/22/2022							0.0062 (J)	
8/23/2022	0.0013 (J)	<0.015				0.00079 (J)		
8/24/2022			<0.015	<0.015	<0.015			0.00081 (J)
2/23/2023		<0.015	<0.015		<0.015		0.0066 (J)	
2/24/2023	0.0011 (J)					<0.015		0.00069 (J)
2/28/2023				<0.015				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	5.51	6.83	6.34	6.14	5.75		5.84		
5/11/2016						6.49		5.7	5.84
8/16/2016	5.42	6.73	6.35		5.72		5.64		
8/17/2016				6.1		6.42		5.55	5.71
10/13/2016	5.52		6.34						
10/14/2016		6.47		6.14	5.71		5.59		
10/17/2016						6.44		5.45	5.69
12/5/2016			6.32						
12/6/2016	5.33	6.74		6.19	5.68	6.48	5.46	5.49	5.58
2/14/2017	5.29	6.85	6.33	6.34	5.57	6.18	5.29		
2/15/2017								5.29	5.54
4/10/2017			6.31						
4/11/2017	5.21	6.75		6.16	5.7	6.49	5.54		
4/12/2017								5.39	5.47
6/26/2017	5.25	6.82	6.35		5.68	6.48	5.54		
6/27/2017				6.08					5.47
10/10/2017	5.49	6.87	6.37						
10/11/2017				6.16	5.63	6.42	5.43		5.58
10/12/2017								5.3	
3/26/2018	5.39	6.77	6.32		5.89				
3/27/2018				6.12		6.53	5.52	5.58	5.65
6/5/2018	5.38	6.73	6.27	6.06			5.59		
6/6/2018					5.62	6.7		5.43	5.32
10/5/2018	5.46	6.81	6.37		5.76		5.7		
10/8/2018				6.16		6.53			
10/9/2018								5.29	
10/16/2018									5.34
3/28/2019				6.15	5.88	6.53	5.67		
3/29/2019	5.22	6.81	6.31						
4/1/2019								5.46	5.24
9/12/2019							5.59		
9/13/2019			6.36						
9/16/2019	5.22	6.82		6.05	5.8	6.44			5.32
9/17/2019								5.31	
2/13/2020	5.09	6.59	6.24						
2/17/2020				6.1			5.73		
2/18/2020					5.76	6.38			5.09
2/19/2020								5.07	
3/17/2020		6.83		6.02	5.87		5.62		
3/18/2020	5.37		6.4			6.36			
3/25/2020								5.26	5.16
5/19/2020	5.37	6.8	6.37	6.03	5.8	6.38	5.61		
9/14/2020	5.11	6.73	6.52	5.98	5.84	6.4	5.82	5.51	5.14
2/9/2021	5.25	6.75	6.4	6.06	5.8	6.38	5.53	5.23	5.24
3/30/2021	5.28	6.73	6.27						
3/31/2021					5.72	6.33	5.5	5.3	
4/7/2021				6.12					5.18
8/17/2021	5.26	6.84		6.08		6.41			
8/18/2021			6.45		5.85		5.51		
8/19/2021								5.21	5.23
2/9/2022	5.28	7.01		6.17	5.84	6.38	5.56		
2/10/2022			6.38						5.11

Time Series

Constituent: pH (S.U.) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/11/2022								5.13	
8/17/2022	5.16	6.79							
8/18/2022			6.32	6.03	5.64	6.35	5.43		5.06
8/19/2022								5.22	
2/21/2023	5.28				5.82		5.6		
2/22/2023		6.85				6.36		5.23	5.1
2/23/2023			6.33	6.04					

Time Series

Constituent: pH (S.U.) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	6.28								
5/12/2016		6.09	5.79	4.76	5.29	6.21			4.36
5/13/2016							4.7	5.55	
8/18/2016	6.23	6	5.75	4.73	5.3	6.24			
8/22/2016							4.68	5.5	4.37
10/17/2016	6.27	6.01	5.73						
10/18/2016				4.62	5.23			5.46	4.26
10/19/2016						6.2	4.65		
12/6/2016	6.28	5.98							
12/7/2016			5.75	4.63	5.31	6.19	4.69		
12/8/2016								5.39	4.28
2/15/2017	6.21	5.74	5.58	4.51		6.25			
2/16/2017					4.77		4.77	5.32	4.29
4/12/2017	6.15	6.01	5.85	4.67					
4/13/2017					5.28	6.21	4.79	5.47	4.24
6/27/2017	6.23	6.05	5.86	4.66	5.22	6.27			
6/28/2017							4.78	5.5	4.28
10/11/2017	6.26	6.14	5.98						
10/12/2017				4.76	5.43	6.33	4.86	5.57	4.32
3/27/2018	6.32	6.25	5.87	4.61	5.28	6.26			
3/28/2018							4.74	5.74	4.25
6/6/2018	6.1								
6/7/2018		5.93	5.81	4.62	5.26	6.21			4.26
6/8/2018							4.69	5.52	
10/8/2018	6.16	6.02	5.83		5.29	6.17			
10/9/2018								5.51	
10/16/2018				4.59					
10/18/2018							4.7		4.3
4/1/2019	6.14	6.06	5.89	4.72					
4/2/2019					5.27	6.26	4.72	5.5	4.33
9/16/2019	6.18								
9/17/2019		5.98	5.78	4.65	5.26	6.23	4.77	5.55	4.37
2/18/2020									4.3
2/19/2020	6.07	5.94	5.75	4.58	5.16	6.16		5.53	
2/20/2020							4.64		
3/23/2020								5.51	4.19
3/24/2020						6.21			
3/26/2020	6.1						4.74		
3/27/2020		5.89	5.74	4.51	5.17				
9/14/2020	6.11	6							
9/15/2020			6.01	4.87	5.56	6.42	4.94	5.51	4.3
2/9/2021	6.13	5.98	5.85	4.26	5.22				
2/10/2021						6.23	4.8	5.55	4.22
3/30/2021							4.82	5.57	4.32
3/31/2021				4.77					
4/1/2021					5.24	6.25			
4/6/2021			5.84						
4/7/2021	6.44	6.07							
8/18/2021						6.26	4.83		
8/19/2021		5.99	5.86	4.63	5.28			5.61	4.28
8/20/2021	6.13								
2/10/2022	6.19				5.21		4.86		

Time Series

Constituent: pH (S.U.) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
2/11/2022		6.02		4.59		6.39		5.65	4.27
2/14/2022			5.77						
8/18/2022	6.12	5.78							
8/19/2022			5.62	4.61					
8/22/2022								5.54	4.3
8/23/2022							4.8		
8/31/2022					5.1	6.26			
10/25/2022					5.23	6.27			
10/31/2022							4.89	5.53	4.32
11/16/2022					5.17	6.23			
2/22/2023						6.23	5	5.53	4.38
2/23/2023	6.04	5.94	5.72	4.59	5.13				

Time Series

Constituent: pH (S.U.) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				6.39	6.66	6.35	6.24		
5/12/2016	5.95	5.675 (D)	6.18						
8/17/2016				6.28	6.55	6.45			
8/19/2016		5.65	5.84						
8/22/2016	5.96						6.15		
10/17/2016				6.3		6.43			
10/18/2016	5.9	5.71	5.89		6.59		6.11		
12/6/2016				6.3	6.51	6.48			
12/7/2016	6.03	5.71	5.87				6.14		
2/14/2017				6.31	6.3	6.39			
2/15/2017			6.04						
2/16/2017	6.03	5.7					5.95		
4/12/2017				6.23	6.43	6.35			
4/13/2017	5.93	5.7	5.85				6.09		
6/27/2017				6.23	6.56	6.41	6.09		
6/28/2017	6	5.66	5.9						
10/11/2017				6.09	6.4				
10/12/2017	6.09	5.73	6.07			6.41	6.16		
3/27/2018			5.99	6.2	6.6	6.66			
3/28/2018	6.08	5.89					6.3		
6/6/2018				5.99	6.56	6.42	6.12		
6/7/2018	6.1	5.66	5.97						
10/8/2018	6.14	5.74	5.94	6.3					
10/9/2018					6.56	6.51	6.06		
4/1/2019					6.57	6.41	6.11		
4/2/2019	6.09	5.65	5.87	6.25					
9/16/2019				6.26			6.11		
9/17/2019	6.27				6.41	6.5			
9/18/2019		5.66	5.97						
2/13/2020								5.89	
2/18/2020	6.06	5.59	5.95	6.32	6.35	6.39			
2/19/2020							6.03	5.86	
3/23/2020	6.12								
3/24/2020		5.62	6						
3/25/2020				6.31		6.35	6.01		
3/26/2020					6.52				
9/14/2020				6.29	6.31	6.56	6.33		
9/15/2020	6.1	5.65	5.89						
2/9/2021				6.34	6.42	6.35	6.21		
2/10/2021	6.21	5.58	5.85						
3/30/2021	6.17								
3/31/2021		5.73	5.93				6.2		
4/1/2021				6.31	6.44	6.32			
4/5/2021								5.96	
4/7/2021									6.28
8/18/2021	6.26	5.76	6.01	6.33	6.61	6.48			6.35
8/19/2021							6.22	5.91	
2/9/2022				6.33	6.77			5.95	6.66
2/10/2022		5.78	6.13			6.47	6.25		
2/11/2022	6.31								
8/18/2022					6.77	6.8	6.52		
8/19/2022				6.24					

Time Series

Constituent: pH (S.U.) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	6.17	5.62	5.91						
8/24/2022								5.87	9.96
10/31/2022	6.29	5.72	6						
2/22/2023				6.28	6.51	6.51	6.14		
2/23/2023	6.19	5.72	6					5.91	
2/24/2023									6.97

Time Series

Constituent: pH (S.U.) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
2/13/2020		5.29						
2/18/2020		5.54						
3/2/2020				6.53				
9/18/2020			5.29					
4/2/2021	6.62	5.38	5.03					
4/7/2021				7.04				
8/18/2021		5.4		6.5				
8/19/2021	6.68							
8/20/2021			5.13					
2/8/2022		5.42	4.92					
2/9/2022	6.55			6.57	6.71		6.25	
2/10/2022						6.11		6.61
8/22/2022							6.27	
8/23/2022	6.75	5.39				6.14		
8/24/2022			5.09	6.61	6.74			6.86
10/31/2022	6.69	5.46				6.96	6.48	
2/23/2023		5.4	5.14		6.73		6.36	
2/24/2023	6.67					6.16		6.54
2/28/2023				6.54				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005		
5/11/2016						<0.005		<0.005	<0.005
6/23/2016	<0.005	<0.005	<0.005				<0.005		
6/24/2016					<0.005	<0.005			
6/27/2016				<0.005					
6/28/2016								<0.005	<0.005
8/16/2016	<0.005	<0.005	<0.005		<0.005		<0.005		
8/17/2016				<0.005		<0.005		<0.005	<0.005
10/13/2016	<0.005		<0.005						
10/14/2016		<0.005		<0.005	<0.005		<0.005		
10/17/2016						<0.005		<0.005	<0.005
12/5/2016			<0.005						
12/6/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
2/15/2017								<0.005	<0.005
4/10/2017			<0.005						
4/11/2017	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		
4/12/2017								<0.005	<0.005
6/26/2017	<0.005	<0.005	<0.005		0.00029 (J)	0.00041 (J)	<0.005		
6/27/2017				<0.005				<0.005	<0.005
3/26/2018	<0.005	<0.005	<0.005		<0.005				
3/27/2018				<0.005		<0.005	<0.005	<0.005	<0.005
6/5/2018	0.00065 (J)	0.00098 (J)	0.00041 (J)	0.00029 (J)			0.00039 (J)		
6/6/2018					<0.005	<0.005		<0.005	<0.005
10/5/2018	0.00031 (J)	0.00028 (J)	<0.005		0.00024 (J)				
10/8/2018				<0.005		0.00041 (J)	<0.005		
10/9/2018								<0.005	
10/16/2018									0.00046 (J)
2/18/2019	<0.005	0.00017 (J)				<0.005			
2/19/2019			<0.005	<0.005	0.00012 (J)		<0.005		
2/20/2019								<0.005	<0.005
3/28/2019				<0.005	<0.005	<0.005	<0.005		
3/29/2019	<0.005	<0.005	<0.005						
4/1/2019								<0.005	<0.005
9/12/2019							<0.005		
9/13/2019			<0.005						
9/16/2019	<0.005	<0.005		<0.005	<0.005	<0.005			<0.005
9/17/2019								<0.005	
2/13/2020	<0.005	<0.005	<0.005						
2/17/2020				<0.005			<0.005		
2/18/2020					<0.005	<0.005			<0.005
2/19/2020								<0.005	
3/17/2020		<0.005		<0.005	<0.005		<0.005		
3/18/2020	<0.005		<0.005			<0.005			
3/25/2020								<0.005	<0.005
9/14/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/30/2021	<0.005	<0.005	<0.005						
3/31/2021					<0.005	<0.005	<0.005	<0.005	
4/7/2021				<0.005					<0.005
8/17/2021	<0.005	<0.005		<0.005		<0.005			
8/18/2021			<0.005		<0.005		<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								<0.005	<0.005
2/9/2022	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		
2/10/2022			<0.005						<0.005
2/11/2022								<0.005	
8/17/2022	<0.005	<0.005							
8/18/2022			<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/19/2022								<0.005	
2/21/2023	<0.005				<0.005		<0.005		
2/22/2023		<0.005				<0.005		<0.005	<0.005
2/23/2023			<0.005	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.005								
5/12/2016		<0.005	<0.005	0.00965 (J)	<0.005	<0.005			0.00396 (J)
5/13/2016							0.023	<0.005	
6/28/2016	<0.005	<0.005	<0.005	0.0101	<0.005				
6/29/2016						<0.005		<0.005	0.0053 (J)
6/30/2016							0.0263		
8/18/2016	0.00031 (J)	<0.005	<0.005	0.0014	0.00053 (J)	<0.005			
8/22/2016							0.0066	<0.005	0.0012 (J)
10/17/2016	<0.005	0.0003 (J)	<0.005						
10/18/2016				0.0013	<0.005			<0.005	<0.005
10/19/2016						<0.005	0.0057		
12/6/2016	<0.005	<0.005							
12/7/2016			<0.005	0.0007 (J)	<0.005	<0.005	0.006		
12/8/2016								<0.005	<0.005
2/15/2017	<0.005	<0.005	0.00066 (J)	0.00075 (J)		<0.005			
2/16/2017					<0.005		0.0055	<0.005	<0.005
4/12/2017	<0.005	<0.005	<0.005	<0.005					
4/13/2017					<0.005	<0.005	0.0049	<0.005	<0.005
6/27/2017	<0.005	<0.005	<0.005	0.0013	0.001 (J)	0.00024 (J)			
6/28/2017							0.0047	0.00096 (J)	0.00064 (J)
3/27/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
3/28/2018							0.0085	<0.005	<0.005
6/6/2018	<0.005								
6/7/2018		0.00064 (J)	0.00084 (J)	0.0014	0.0013	0.00064 (J)			0.00066 (J)
6/8/2018							0.014	0.00063 (J)	
10/8/2018	<0.005	<0.005	<0.005		0.0014	0.00028 (J)			
10/9/2018								0.0005 (J)	
10/16/2018				0.0021					
10/18/2018							0.017		0.00049 (J)
2/20/2019	<0.005	<0.005	<0.005	0.0034	0.0012 (J)	<0.005	0.027	<0.005	0.0011 (J)
4/1/2019	<0.005	<0.005	<0.005	<0.005					
4/2/2019					0.0021	<0.005	0.0075	<0.005	<0.005
9/16/2019	<0.005								
9/17/2019		<0.005	<0.005	<0.005	<0.005	<0.005	0.0036	<0.005	<0.005
2/18/2020									<0.005
2/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
2/20/2020							0.0024 (J)		
3/23/2020								<0.005	<0.005
3/24/2020						<0.005			
3/26/2020	<0.005						0.0019 (J)		
3/27/2020		<0.005	<0.005	<0.005	<0.005				
9/14/2020	<0.005	<0.005							
9/15/2020			<0.005	<0.005	<0.005	<0.005	0.003 (J)	<0.005	<0.005
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005				
2/10/2021						<0.005	0.0016 (J)	<0.005	<0.005
3/30/2021							<0.005	<0.005	<0.005
3/31/2021				<0.005					
4/1/2021					<0.005	<0.005			
4/6/2021			<0.005						
4/7/2021	<0.005	<0.005							
8/18/2021						<0.005	0.002 (J)		
8/19/2021		<0.005	<0.005	<0.005	<0.005			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.005								
2/10/2022	<0.005				0.00092 (J)		0.0021 (J)		
2/11/2022		<0.005		<0.005		<0.005		<0.005	<0.005
2/14/2022			<0.005						
8/18/2022	<0.005	<0.005							
8/19/2022			<0.005	<0.005					
8/22/2022								0.00099 (J)	<0.005
8/23/2022							0.00085 (J)		
8/31/2022					0.001 (J)	<0.005			
2/22/2023						<0.005	<0.005	<0.005	<0.005
2/23/2023	<0.005	<0.005	<0.005	<0.005	0.00093 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.005	<0.005	<0.005	<0.005		
5/12/2016	<0.005	<0.005	<0.005						
6/27/2016				<0.005	<0.005	<0.005			
6/29/2016	<0.005	<0.005	<0.005				<0.005		
8/17/2016				<0.005	<0.005	<0.005			
8/19/2016		<0.005	<0.005						
8/22/2016	<0.005						<0.005		
10/17/2016				<0.005		<0.005			
10/18/2016	<0.005	<0.005	<0.005		<0.005		<0.005		
12/6/2016				<0.005	<0.005	<0.005			
12/7/2016	<0.005	<0.005	<0.005				<0.005		
2/14/2017				<0.005	<0.005	<0.005			
2/15/2017			<0.005						
2/16/2017	<0.005	<0.005					<0.005		
4/12/2017				0.00034 (J)	<0.005	<0.005			
4/13/2017	<0.005	<0.005	<0.005				<0.005		
6/27/2017				0.00057 (J)	<0.005	<0.005	<0.005		
6/28/2017	<0.005	<0.005	0.00033 (J)						
3/27/2018			<0.005	<0.005	<0.005	<0.005			
3/28/2018	<0.005	<0.005					<0.005		
6/6/2018				0.00032 (J)	<0.005	<0.005	<0.005		
6/7/2018	<0.005	<0.005	<0.005						
10/8/2018	<0.005	<0.005	0.00026 (J)	<0.005					
10/9/2018					0.00034 (J)	<0.005	<0.005		
10/18/2018								0.0045	<0.005
2/19/2019		<0.005	0.00021 (J)						
2/20/2019	<0.005			<0.005	<0.005	<0.005	<0.005		
4/1/2019					<0.005	<0.005	<0.005		
4/2/2019	<0.005	<0.005	<0.005	<0.005					
9/16/2019				<0.005			<0.005		
9/17/2019	<0.005				<0.005	<0.005			
9/18/2019		<0.005	<0.005						
2/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
2/19/2020							<0.005		
3/23/2020	<0.005								
3/24/2020		<0.005	<0.005						
3/25/2020				<0.005		<0.005	<0.005		
3/26/2020					<0.005				
9/14/2020				<0.005	<0.005	<0.005	<0.005		
9/15/2020	<0.005	<0.005	<0.005						
2/9/2021				<0.005	<0.005	<0.005	<0.005		
2/10/2021	<0.005	<0.005	<0.005						
3/30/2021	<0.005								
3/31/2021		<0.005	<0.005				<0.005		
4/1/2021				<0.005	<0.005	<0.005			
8/18/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
8/19/2021							<0.005		
2/9/2022				<0.005	<0.005			0.0061	<0.005
2/10/2022		<0.005	<0.005			<0.005	<0.005		
2/11/2022	<0.005								
8/18/2022					<0.005	<0.005	<0.005		
8/19/2022				<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	<0.005	<0.005	<0.005						
8/24/2022								0.0062	<0.005
2/22/2023				<0.005	<0.005	<0.005	<0.005		
2/23/2023	<0.005	<0.005	0.00075 (J)					0.0071	
2/24/2023									<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				0.00046 (J)				
10/17/2018	<0.0013							
10/18/2018					0.00047 (J)	0.00059 (J)	0.00026 (J)	
2/8/2022		<0.005	<0.005					
2/9/2022	0.0022 (J)			<0.005	<0.005		<0.005	
2/10/2022						<0.005		<0.005
8/22/2022							<0.005	
8/23/2022	0.0014 (J)	<0.005				<0.005		
8/24/2022			<0.005	<0.005	<0.005			<0.005
2/23/2023		<0.005	<0.005		<0.005		<0.005	
2/24/2023	0.0019 (J)					<0.005		<0.005
2/28/2023				<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	0.6766 (J)	0.4053 (J)	<1	0.686 (J)	2.82		0.4716 (J)		
5/11/2016						3.75		7.43	6.31
6/23/2016	0.94 (J)	0.55 (J)	0.3 (J)				0.46 (J)		
6/24/2016					2.3	3			
6/27/2016				0.61 (J)					
6/28/2016								6.3	3.7
8/16/2016	1.2	<1	<1		1.5		<1		
8/17/2016				<1		1.8		11	2.4
10/13/2016	2.9		<1						
10/14/2016		<1		<1	1.2		<1		
10/17/2016						1.4		4.4	2.1
12/5/2016			<1						
12/6/2016	3.2	<1		<1	1.3	1.4	<1	11	1.9
2/14/2017	0.76 (J)	<1	<1	<1	1.9	1.1	<1		
2/15/2017								1.3	1.2
4/10/2017			<1						
4/11/2017	<1	<1		<1	1.3	1	<1		
4/12/2017								2.8	1
6/26/2017	0.74 (J)	<1	<1		1.5	0.99 (J)	<1		
6/27/2017				<1				8.2	1.2
10/10/2017	0.76 (J)	<1	<1						
10/11/2017				<1	0.98 (J)	0.93 (J)	<1		0.82 (J)
10/12/2017								1.3	
6/5/2018	<1	<1	<1	<1			<1		
6/6/2018					1.8	0.89 (J)		2.9	0.89 (J)
10/16/2018									1.3
12/13/2018	<1	<1	<1	<1	1.4	0.76 (J)	<1		
12/17/2018								16	
3/28/2019				<1	1.9	1.2	<1		
3/29/2019	<1	0.65 (J)	<1						
4/1/2019								21	0.81 (J)
9/12/2019							<1		
9/13/2019			<1						
9/16/2019	0.98 (J)	0.68 (J)		<1	0.92 (J)	1.1			0.72 (J)
9/17/2019								2.3	
3/17/2020		0.78 (J)		0.61 (J)	1.6		0.55 (J)		
3/18/2020	1.2		0.45 (J)			1.3			
3/25/2020								14	0.58 (J)
9/14/2020	0.58 (J)	<1	<1	<1	0.82 (J)	0.96 (J)	<1	2.2	0.59 (J)
3/30/2021	1.2	<1	<1						
3/31/2021					1.1	1.1	<1	15	
4/7/2021				<1					1.3
8/17/2021	<1	<1		<1		1.1			
8/18/2021			1		0.9 (J)		<1		
8/19/2021								2.2	<1
2/9/2022	1	1.2		<1	1.3	1.1	<1		
2/10/2022			<1						<1
2/11/2022								2.1	
8/17/2022	0.94 (J)	0.87 (J)							
8/18/2022			<1	<1	<1	<1	<1		<1
8/19/2022								4.5	
2/21/2023	1.3				1.6		1.2		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/22/2023		1.4				1.4		18	3.1
2/23/2023			1.6	1.3					

Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	30.1								
5/12/2016		89.7	194	194	9.9	125			255
5/13/2016							484	212	
6/28/2016	25	76	200	200	11				
6/29/2016						120		220	270
6/30/2016							490		
8/18/2016	24	78	180	190	14	130			
8/22/2016							500	220	270
10/17/2016	23	73	190						
10/18/2016				190	15			210	240
10/19/2016						140	520		
12/6/2016	28	76							
12/7/2016			200	200	17	160	510		
12/8/2016								220	240
2/15/2017	33	73	190	190		160			
2/16/2017					17		450	210	230
4/12/2017	30	70	170	170					
4/13/2017					15	140	380	190	220
6/27/2017	33	78	200	200	19	160			
6/28/2017							390	220	240
10/11/2017	33	72	190						
10/12/2017				190	20	170	430	210	210
6/6/2018	41								
6/7/2018		69	190	190	25	170			210
6/8/2018							870	220	
10/16/2018				200					
10/18/2018							1200		210
12/14/2018	43	74	190			180			
12/17/2018					28			270	
4/1/2019	48	82	180	190					
4/2/2019					31	180	1100	240	220
9/16/2019	44								
9/17/2019		79	200	220	33	200	1100	260	220
3/23/2020								250	220
3/24/2020						190			
3/26/2020	44						1000		
3/27/2020		81	180	190	35				
9/14/2020	41	89							
9/15/2020			180	190	36	190	860	250	200
3/30/2021							960	270	220
3/31/2021				200					
4/1/2021					37	210			
4/6/2021			190						
4/7/2021	54	96							
8/18/2021						200	940		
8/19/2021		82	190	200	38			280	230
8/20/2021	60								
2/10/2022	41				45		890		
2/11/2022		94		200		190		260	230
2/14/2022			220						
8/18/2022	50	95							
8/19/2022			200	180					

Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/22/2022								260	220
8/23/2022							910		
8/31/2022					49	220			
2/22/2023						230	790	260	230
2/23/2023	57	96	210	190	55				

Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				0.866 (J)	21.6	61.6	313		
5/12/2016	76.9	85.3	131						
6/27/2016				0.86 (J)	17	64			
6/29/2016	78	84	120				280		
8/17/2016				<1	19	63			
8/19/2016		81	120						
8/22/2016	78						300		
10/17/2016				<1		64			
10/18/2016	70	83	130		17		280		
12/6/2016				<1	18	72			
12/7/2016	80	85	140				280		
2/14/2017				1	21	73			
2/15/2017			120						
2/16/2017	77	83					300		
4/12/2017				<1	18	64			
4/13/2017	70	79	100				280		
6/27/2017				<1	19	77	340		
6/28/2017	82	90	120						
10/11/2017				<1	15				
10/12/2017	76	87	120			74	310		
6/6/2018				<1	14	74	320		
6/7/2018	79	94	100						
10/18/2018								550	140
12/14/2018				<1	10	72			
12/17/2018	88	99	96				330		
4/1/2019					16	67	310		
4/2/2019	92	100	95	1.3					
9/16/2019				0.53 (J)			310		
9/17/2019	99				8.7	77			
9/18/2019		100	95						
3/23/2020	120								
3/24/2020		100	71						
3/25/2020				0.58 (J)		62	300		
3/26/2020					15				
9/14/2020				0.46 (J)	17	81	220		
9/15/2020	130	110	72						
3/30/2021	140								
3/31/2021		120	75				240		
4/1/2021				<1	18	74			
8/18/2021	130	110	66	<1	12	78			
8/19/2021							160		
2/9/2022				0.88 (J)	7.1			<1	150
2/10/2022		100	73			80	190		
2/11/2022	120								
8/18/2022					5.3	78	200		
8/19/2022				<1					
8/22/2022	130	110	61						
8/24/2022								540	170
2/22/2023				1.4	6.7	52	200		
2/23/2023	120	120	64					660	
2/24/2023									160

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				6				
10/17/2018	4							
10/18/2018					92	570	250	
2/8/2022		<1	<1					
2/9/2022	38			0.76 (J)	100		240	
2/10/2022						720		110
8/22/2022							240	
8/23/2022	36	<1				640		
8/24/2022			<1	0.78 (J)	100			100
2/23/2023		1.1	1.6		120		260	
2/24/2023	45					700		100
2/28/2023				1.7				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
5/11/2016						<0.001		<0.001	<0.001
6/23/2016	8E-05 (J)	<0.001	<0.001				<0.001		
6/24/2016					0.0001 (J)	<0.001			
6/27/2016				<0.001					
6/28/2016								0.0001 (J)	<0.001
8/16/2016	9.5E-05 (J)	<0.001	<0.001		<0.001		<0.001		
8/17/2016				<0.001		<0.001		<0.001	<0.001
10/13/2016	<0.001		<0.001						
10/14/2016		<0.001		<0.001	<0.001		<0.001		
10/17/2016						<0.001		<0.001	<0.001
12/5/2016			<0.001						
12/6/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/14/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
2/15/2017								<0.001	<0.001
4/10/2017			<0.001						
4/11/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		
4/12/2017								<0.001	<0.001
6/26/2017	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		
6/27/2017				<0.001				<0.001	<0.001
3/26/2018	<0.001	<0.001	<0.001		<0.001				
3/27/2018				<0.001		<0.001	<0.001	<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001		
6/6/2018					<0.001	<0.001		<0.001	<0.001
10/5/2018	<0.001	<0.001	<0.001		<0.001				
10/8/2018				<0.001		<0.001	<0.001		
10/9/2018								<0.001	
10/16/2018									<0.001
2/18/2019	<0.001	<0.001				<0.001			
2/19/2019			<0.001	<0.001	<0.001		<0.001		
2/20/2019								<0.001	<0.001
3/28/2019				<0.001	<0.001	<0.001	<0.001		
3/29/2019	<0.001	<0.001	<0.001						
4/1/2019								<0.001	<0.001
9/12/2019							<0.001		
9/13/2019			<0.001						
9/16/2019	<0.001	<0.001		<0.001	<0.001	<0.001			<0.001
9/17/2019								<0.001	
2/13/2020	<0.001	<0.001	<0.001						
2/17/2020				<0.001			<0.001		
2/18/2020					0.00033 (J)	0.00049 (J)			0.00016 (J)
2/19/2020								0.00075 (J)	
3/17/2020		<0.001		<0.001	<0.001		<0.001		
3/18/2020	0.00049 (J)		<0.001			0.00021 (J)			
3/25/2020								<0.001	<0.001
9/14/2020	0.00039 (J)	0.00016 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/30/2021	0.00035 (J)	0.00034 (J)	<0.001						
3/31/2021					<0.001	<0.001	<0.001	<0.001	
4/7/2021				<0.001					<0.001
8/17/2021	<0.001	<0.001		<0.001		<0.001			
8/18/2021			<0.001		<0.001		0.0003 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
8/19/2021								0.00024 (J)	0.00015 (J)
2/9/2022	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		
2/10/2022			<0.001						<0.001
2/11/2022								<0.001	
8/17/2022	<0.001	<0.001							
8/18/2022			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/19/2022								<0.001	
2/21/2023	<0.001				<0.001		<0.001		
2/22/2023		<0.001				<0.001		<0.001	<0.001
2/23/2023			<0.001	<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.001								
5/12/2016		<0.001	<0.001	<0.001	<0.001	<0.001			<0.001
5/13/2016							<0.001	<0.001	
6/28/2016	<0.001	<0.001	<0.001	9E-05 (J)	<0.001				
6/29/2016						<0.001		<0.001	0.0002 (J)
6/30/2016							0.0002 (J)		
8/18/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
8/22/2016							0.00015 (J)	<0.001	0.00018 (J)
10/17/2016	<0.001	<0.001	<0.001						
10/18/2016				<0.001	<0.001			<0.001	0.00016 (J)
10/19/2016						<0.001	0.00012 (J)		
12/6/2016	<0.001	<0.001							
12/7/2016			<0.001	<0.001	<0.001	<0.001	9.5E-05 (J)		
12/8/2016								<0.001	0.0001 (J)
2/15/2017	<0.001	<0.001	<0.001	8.5E-05 (J)		<0.001			
2/16/2017					<0.001		0.00013 (J)	<0.001	0.00014 (J)
4/12/2017	<0.001	<0.001	<0.001	9.5E-05 (J)					
4/13/2017					<0.001	<0.001	0.00012 (J)	<0.001	0.00021 (J)
6/27/2017	<0.001	<0.001	<0.001	0.0001 (J)	<0.001	<0.001			
6/28/2017							0.00013 (J)	<0.001	0.00018 (J)
3/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
3/28/2018							0.00011 (J)	<0.001	9E-05 (J)
6/6/2018	<0.001								
6/7/2018		<0.001	<0.001	<0.001	<0.001	<0.001			0.00014 (J)
6/8/2018							0.00019 (J)	<0.001	
10/8/2018	<0.001	<0.001	<0.001		<0.001	<0.001			
10/9/2018								<0.001	
10/16/2018				0.0001 (J)					
10/18/2018							0.00019 (J)		0.00018 (J)
2/20/2019	<0.001	<0.001	<0.001	9.8E-05 (J)	<0.001	<0.001	0.00021 (J)	<0.001	0.00018 (J)
4/1/2019	<0.001	<0.001	<0.001	9.5E-05 (J)					
4/2/2019					<0.001	<0.001	0.00016 (J)	<0.001	0.00017 (J)
9/16/2019	<0.001								
9/17/2019		<0.001	<0.001	0.00016 (J)	<0.001	<0.001	0.00025 (J)	<0.001	0.00021 (J)
2/18/2020									0.00033 (J)
2/19/2020	0.00034 (J)	0.00022 (J)	0.00018 (J)	0.00031 (J)	<0.001	<0.001		<0.001	
2/20/2020							0.00066 (J)		
3/23/2020								<0.001	0.00016 (J)
3/24/2020						<0.001			
3/26/2020	<0.001						0.00029 (J)		
3/27/2020		<0.001	0.0011	0.00045 (J)	<0.001				
9/14/2020	0.00023 (J)	<0.001							
9/15/2020			0.00035 (J)	0.00027 (J)	<0.001	<0.001	0.00027 (J)	<0.001	0.00028 (J)
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001				
2/10/2021						0.00024 (J)	0.00068 (J)	<0.001	0.00025 (J)
3/30/2021							0.00024 (J)	<0.001	0.00018 (J)
3/31/2021				<0.001					
4/1/2021					<0.001	<0.001			
4/6/2021			0.00017 (J)						
4/7/2021	<0.001	<0.001							
8/18/2021						<0.001	0.00022 (J)		
8/19/2021		<0.001	<0.001	<0.001	<0.001			<0.001	0.00018 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/20/2021	<0.001								
2/10/2022	<0.001				<0.001		<0.001		
2/11/2022		<0.001		<0.001		<0.001		<0.001	<0.001
2/14/2022			<0.001						
8/18/2022	<0.001	<0.001							
8/19/2022			<0.001	<0.001					
8/22/2022								<0.001	<0.001
8/23/2022							<0.001		
8/31/2022					<0.001	<0.001			
2/22/2023						<0.001	<0.001	<0.001	<0.001
2/23/2023	<0.001	<0.001	<0.001	<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				<0.001	<0.001	<0.001	<0.001		
5/12/2016	<0.001	<0.001	<0.001						
6/27/2016				<0.001	<0.001	<0.001			
6/29/2016	<0.001	<0.001	<0.001				<0.001		
8/17/2016				<0.001	<0.001	<0.001			
8/19/2016		<0.001	<0.001						
8/22/2016	<0.001						<0.001		
10/17/2016				<0.001		<0.001			
10/18/2016	<0.001	<0.001	<0.001		<0.001		<0.001		
12/6/2016				<0.001	<0.001	<0.001			
12/7/2016	<0.001	<0.001	<0.001				<0.001		
2/14/2017				<0.001	<0.001	<0.001			
2/15/2017			<0.001						
2/16/2017	<0.001	<0.001					<0.001		
4/12/2017				<0.001	<0.001	<0.001			
4/13/2017	<0.001	<0.001	<0.001				<0.001		
6/27/2017				<0.001	<0.001	<0.001	<0.001		
6/28/2017	<0.001	<0.001	<0.001						
3/27/2018			<0.001	<0.001	<0.001	<0.001			
3/28/2018	<0.001	<0.001					<0.001		
6/6/2018				<0.001	<0.001	<0.001	<0.001		
6/7/2018	<0.001	<0.001	<0.001						
10/8/2018	<0.001	<0.001	<0.001	<0.001					
10/9/2018					<0.001	<0.001	<0.001		
10/18/2018								<0.001	<0.001
2/19/2019		<0.001	<0.001						
2/20/2019	<0.001			<0.001	<0.001	<0.001	<0.001		
4/1/2019					<0.001	<0.001	<0.001		
4/2/2019	<0.001	<0.001	<0.001	<0.001					
9/16/2019				<0.001			<0.001		
9/17/2019	<0.001				<0.001	0.00023 (J)			
9/18/2019		<0.001	<0.001						
2/18/2020	<0.001	<0.001	<0.001	0.00028 (J)	0.00022 (J)	0.0002 (J)			
2/19/2020							0.00027 (J)		
3/23/2020	<0.001								
3/24/2020		<0.001	<0.001						
3/25/2020				0.00049 (J)		0.00079 (J)	<0.001		
3/26/2020					<0.001				
9/14/2020				<0.001	<0.001	<0.001	<0.001		
9/15/2020	<0.001	0.00038 (J)	0.00016 (J)						
2/9/2021				<0.001	<0.001	<0.001	<0.001		
2/10/2021	<0.001	<0.001	<0.001						
3/30/2021	<0.001								
3/31/2021		<0.001	<0.001				<0.001		
4/1/2021				0.00023 (J)	0.00042 (J)	0.00021 (J)			
8/18/2021	<0.001	<0.001	<0.001	0.00017 (J)	<0.001	<0.001			
8/19/2021							0.0004 (J)		
2/9/2022				<0.001	<0.001			<0.001	<0.001
2/10/2022		<0.001	<0.001			<0.001	<0.001		
2/11/2022	<0.001								
8/18/2022					<0.001	<0.001	<0.001		
8/19/2022				<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
8/22/2022	<0.001	<0.001	<0.001						
8/24/2022								<0.001	<0.001
2/22/2023				<0.001	<0.001	<0.001	<0.001		
2/23/2023	<0.001	<0.001	<0.001					<0.001	
2/24/2023									<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				<0.001				
10/17/2018	<0.001							
10/18/2018					<0.001	<0.001	<0.001	
2/8/2022		<0.001	<0.001					
2/9/2022	<0.001			<0.001	<0.001		<0.001	
2/10/2022						<0.001		<0.001
8/22/2022							<0.001	
8/23/2022	<0.001	<0.001				<0.001		
8/24/2022			<0.001	<0.001	<0.001			<0.001
2/23/2023		<0.001	<0.001		<0.001		<0.001	
2/24/2023	<0.001					<0.001		<0.001
2/28/2023				<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
5/10/2016	44	96	110	100	59		64		
5/11/2016						91		68	80
6/23/2016	38	91	118				58		
6/24/2016					39	78			
6/27/2016				117					
6/28/2016								41	134
8/16/2016	22	100	110		38		52		
8/17/2016				86		100		70	42
10/13/2016	66		120						
10/14/2016		100		80	34		58		
10/17/2016						58		6	24
12/5/2016			110						
12/6/2016	54	110		110	70	98	72	40	70
2/14/2017	18	76	86	98	32	78	52		
2/15/2017								18	34
4/10/2017			120						
4/11/2017	50	120		110	64	110	78		
4/12/2017								18	36
6/26/2017	60	110	130		64	110	80		
6/27/2017				18				50	8
10/10/2017	36	100	110						
10/11/2017				94	42	120	64		56
10/12/2017								46	
6/5/2018	8	74	76	80			50		
6/6/2018					46	120		38	40
10/16/2018									100
12/13/2018	16	110	100	4 (J)	4 (J)	94	58		
12/17/2018								38	
3/28/2019				79	43	110	58		
3/29/2019	<10	72	110						
4/1/2019								82	33
9/12/2019							22		
9/13/2019			200						
9/16/2019	17	91		42	19	57			<10
9/17/2019								17	
3/17/2020		100		98	52		30		
3/18/2020	25		110			140			
3/25/2020								59	38
9/14/2020	20	93	95	71	55	110	36	45	39
3/30/2021	32	110	110						
3/31/2021					57	120	35	64	
4/7/2021				95					40
8/17/2021	27	110		97		130			
8/18/2021			120		66		53		
8/19/2021								54	36
2/9/2022	45	100		93	54	110	60		
2/10/2022			130						39
2/11/2022								44	
8/17/2022	82	130							
8/18/2022			170	88	64	140	94		54
8/19/2022								63	
2/21/2023	41				55		65		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)	SGWC-10	SGWC-11
2/22/2023		100				120		56	41
2/23/2023			130	90					

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
5/11/2016	195								
5/12/2016		190	309	298	46	261			386
5/13/2016							728	366	
6/28/2016	200	198	333	337	60				
6/29/2016						323		370	436
6/30/2016							742		
8/18/2016	200	180	320	310	48	310			
8/22/2016							670	350	290
10/17/2016	160	140	320						
10/18/2016				320	60			340	200
10/19/2016						330 (D)	700		
12/6/2016	220	110							
12/7/2016			340	270	64	370	720		
12/8/2016								350	370
2/15/2017	200	160	340	310		350			
2/16/2017					40		600	340	350
4/12/2017	180	140	300	280					
4/13/2017					76	390	640	350	380
6/27/2017	200	170	320	290	50	350			
6/28/2017							540	340	320
10/11/2017	190	170	340						
10/12/2017				330	68	380	640	370	350
6/6/2018	260								
6/7/2018		190	340	310	74	360			320
6/8/2018							820	320	
10/16/2018				350					
10/18/2018							1200		370
12/14/2018	190	140	280			390			
12/17/2018					42			250	
4/1/2019	200	190	330	330					
4/2/2019					73	400	1700	420	370
9/16/2019	200								
9/17/2019		170	310	320	59	380	1600	400	320
3/23/2020								390	330
3/24/2020						430			
3/26/2020	200						1600		
3/27/2020		200	330	330	99				
9/14/2020	190	190							
9/15/2020			360	340	90	440	1500	450	350
3/30/2021							1500	420	350
3/31/2021				300					
4/1/2021					88	410			
4/6/2021			320						
4/7/2021	210	200							
8/18/2021						450	1400		
8/19/2021		210	370	320	100			440	340
8/20/2021	220								
2/10/2022	210				100		1400		
2/11/2022		200		310		440		440	350
2/14/2022			360						
8/18/2022	230	240							
8/19/2022			370	320					

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20
8/22/2022								450	370
8/23/2022							1300		
11/16/2022					110	430			
2/22/2023						470	1200	440	350
2/23/2023	220	230	390	300	130				

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-41S	PZ-43S
5/11/2016				104	222	330	527		
5/12/2016	260	212	288						
6/27/2016				112	275	423			
6/29/2016	311	214	272				562		
8/17/2016				86	220	410			
8/19/2016		230	290						
8/22/2016	390						500		
10/17/2016				60		370			
10/18/2016	300	190	270		210		490		
12/6/2016				90	250	420			
12/7/2016	310	230	300				510		
2/14/2017				54	210	370			
2/15/2017			260						
2/16/2017	310	200					520		
4/12/2017				64	200	370			
4/13/2017	300	220	300				590		
6/27/2017				40	180	380	550		
6/28/2017	290	190	250						
10/11/2017				82	210				
10/12/2017	290	230	280			400	560		
6/6/2018				100	210	410	590		
6/7/2018	260	210	220						
10/18/2018								670	230
12/14/2018				44	170	390			
12/17/2018	310	260	30				510		
4/1/2019					200	370	580		
4/2/2019	300	240	250	91					
9/16/2019				76			550		
9/17/2019	290				140	380			
9/18/2019		470	490						
3/23/2020	330								
3/24/2020		250	210						
3/25/2020				94		360	540		
3/26/2020					180				
9/14/2020				99	200	360	470		
9/15/2020	390	250	210						
3/30/2021	380								
3/31/2021		240	220				430		
4/1/2021				83	200	360			
8/18/2021	380	260	210	140	210	410			
8/19/2021							380		
2/9/2022				130	170			820	310
2/10/2022		250	230			400	410		
2/11/2022	350								
8/18/2022					200	420	470		
8/19/2022				150					
8/22/2022	380	3400	220						
8/24/2022								920	350
2/22/2023				120	170	350	430		
2/23/2023	350	260	210					950	
2/24/2023									330

Time Series

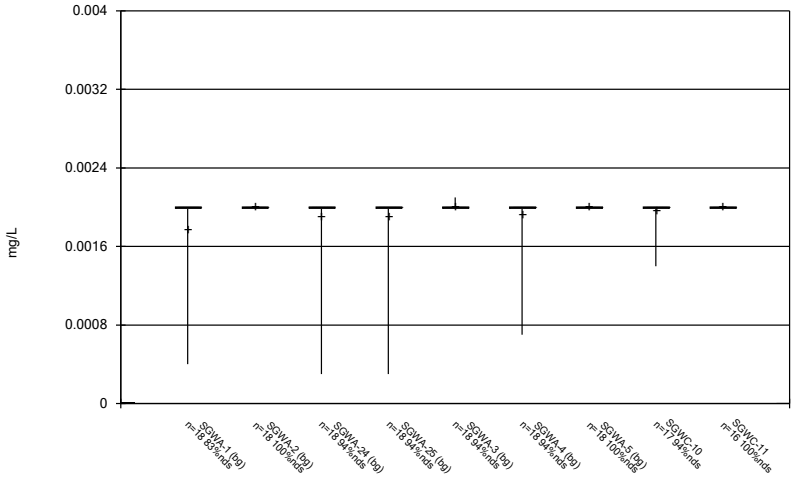
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S	PZ-14S	PZ-13S	PZ-44I	PZ-17I	PZ-40I	PZ-42I	PZ-69I
10/16/2018				180				
10/17/2018	140							
10/18/2018					260	840	440	
2/8/2022		48	37					
2/9/2022	150			120	240		470	
2/10/2022						1200		320
8/22/2022							500	
8/23/2022	170	65				100		
8/24/2022			86	200	280			290
2/23/2023		59	51		260		490	
2/24/2023	160					1100		290
2/28/2023				120				

FIGURE B.

Box & Whiskers Plot

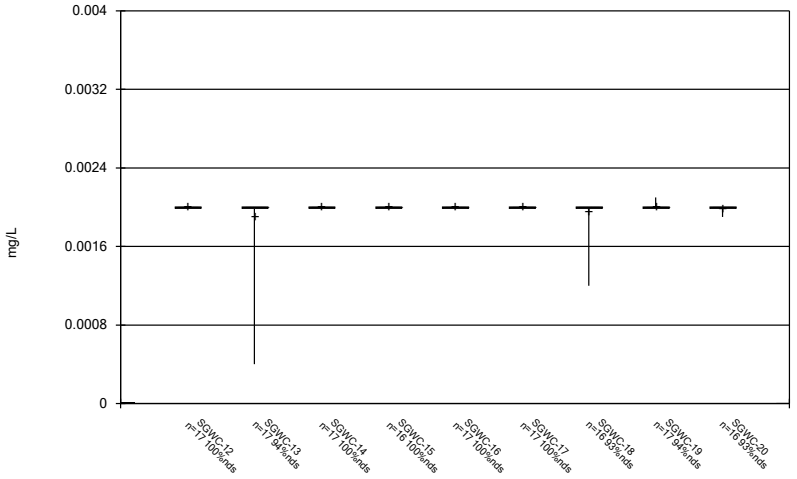


Constituent: Antimony Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

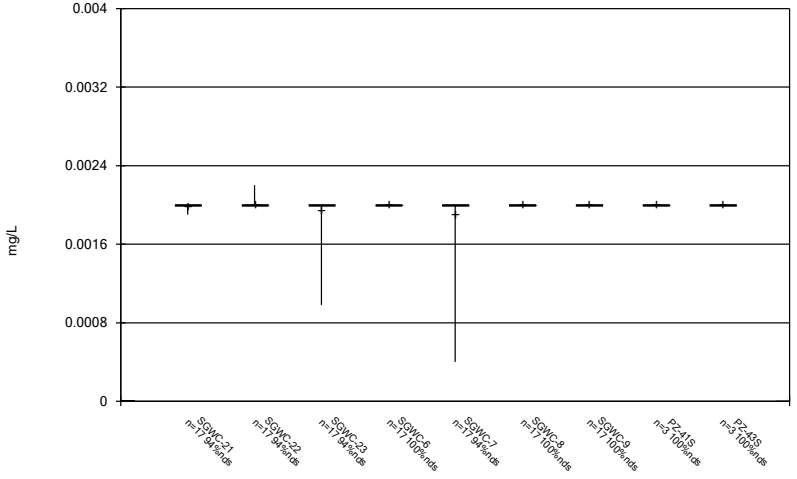


Constituent: Antimony Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

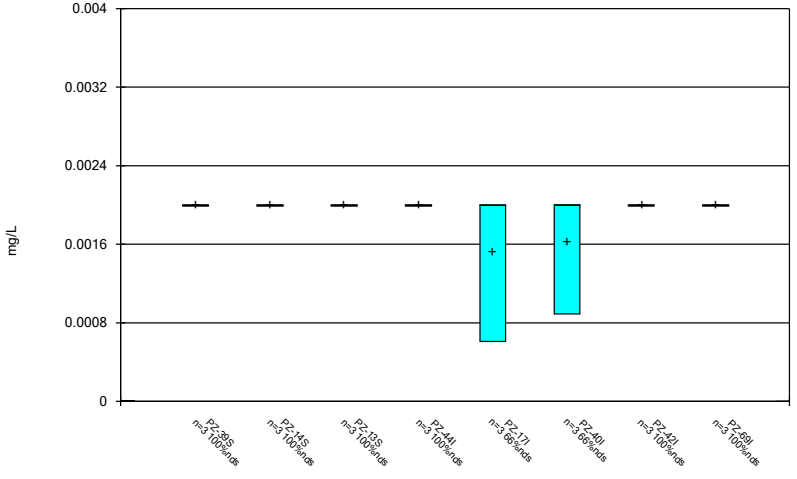


Constituent: Antimony Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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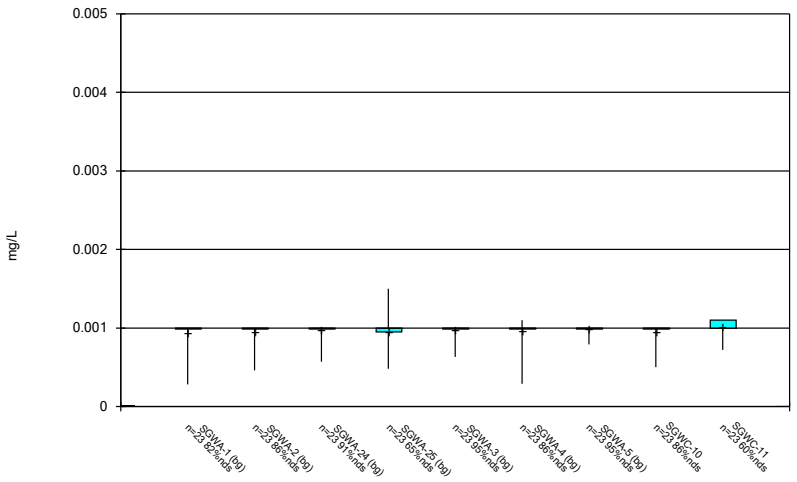
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

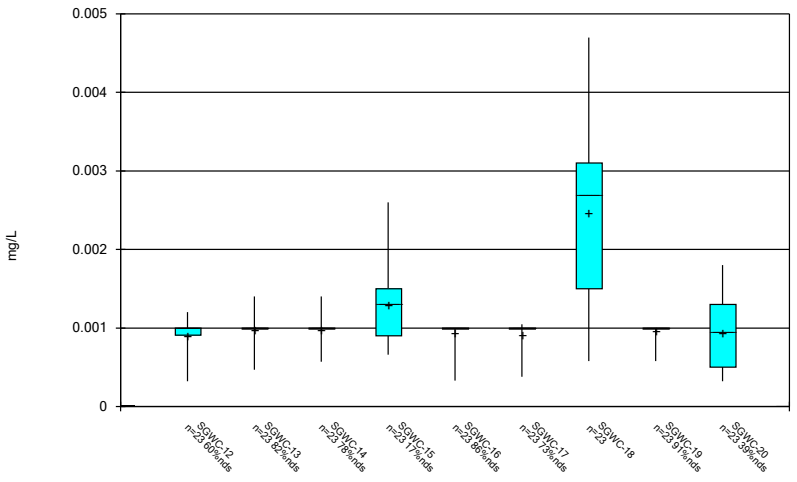


Constituent: Arsenic Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

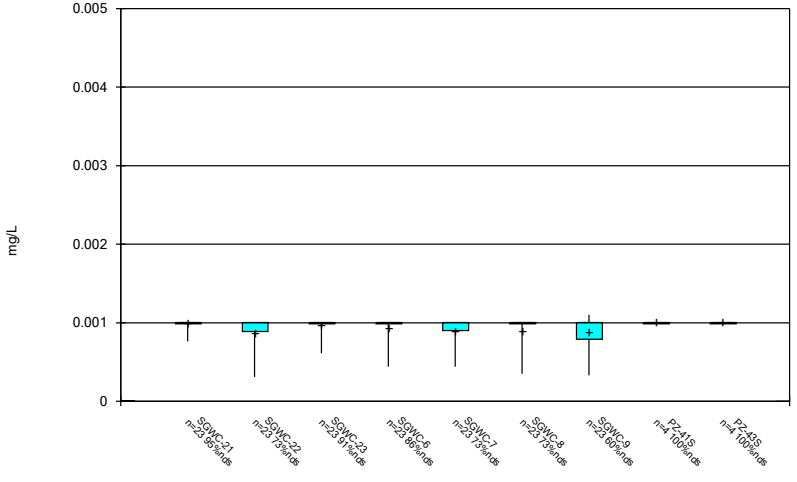


Constituent: Arsenic Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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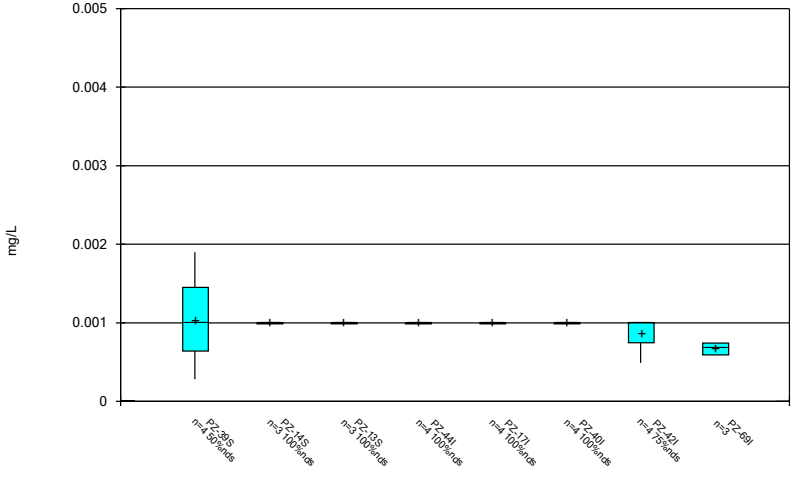
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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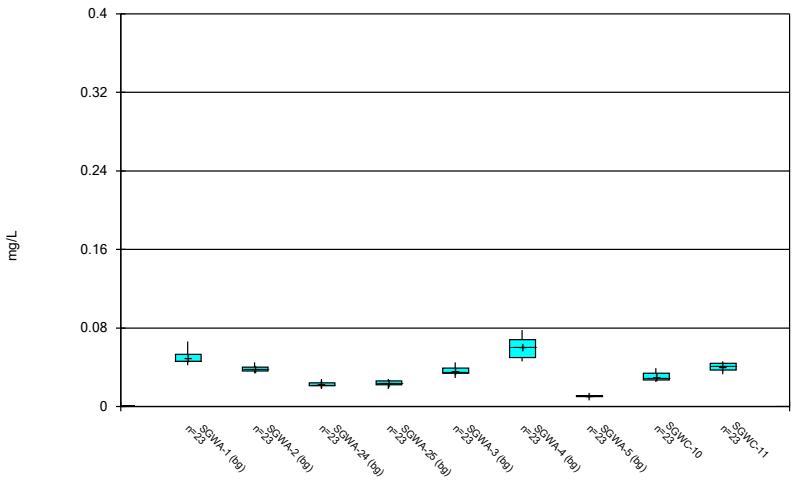
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

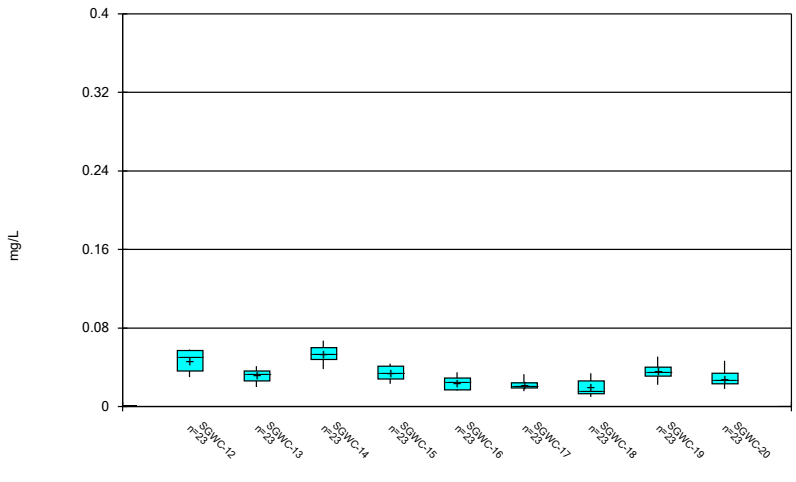


Constituent: Barium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

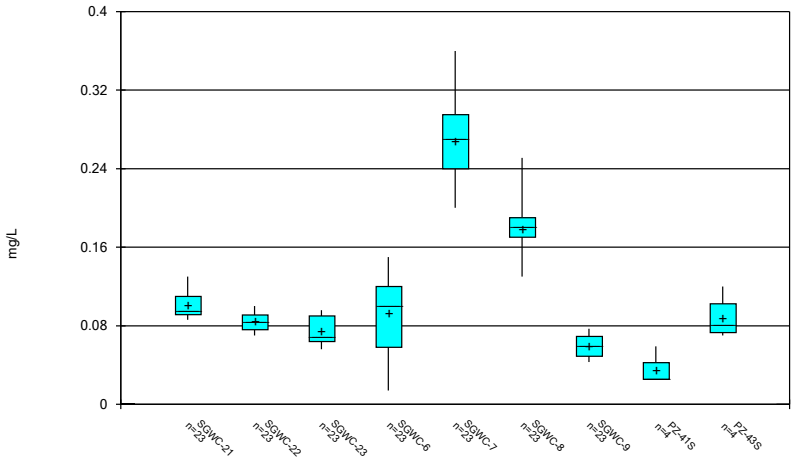


Constituent: Barium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

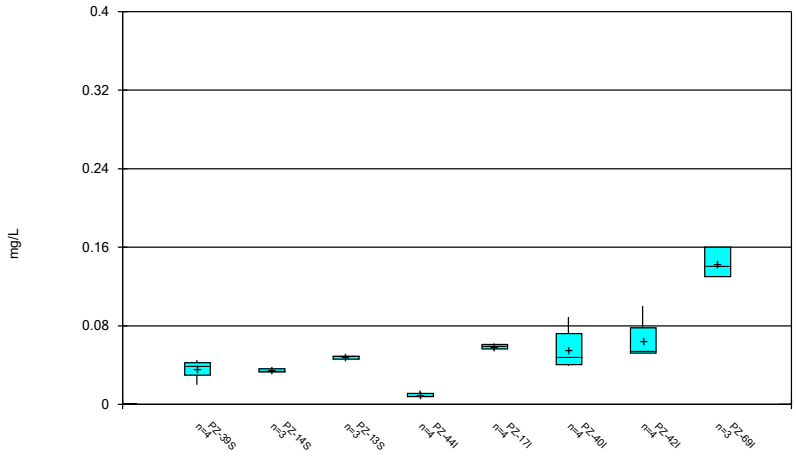


Constituent: Barium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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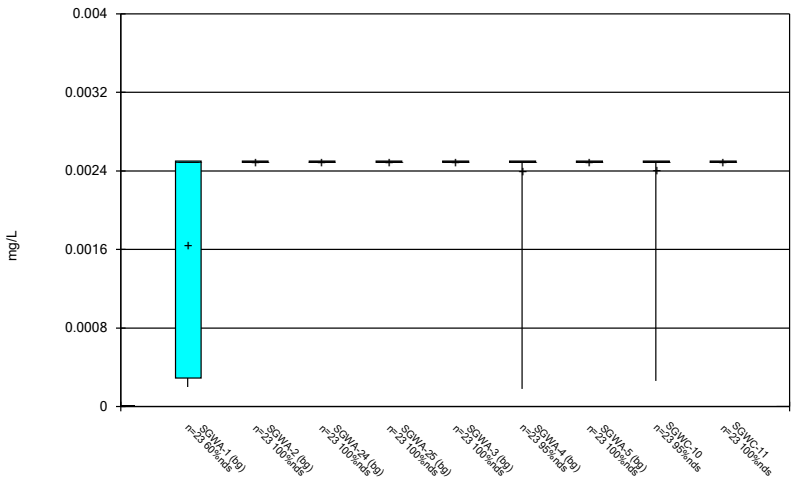
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

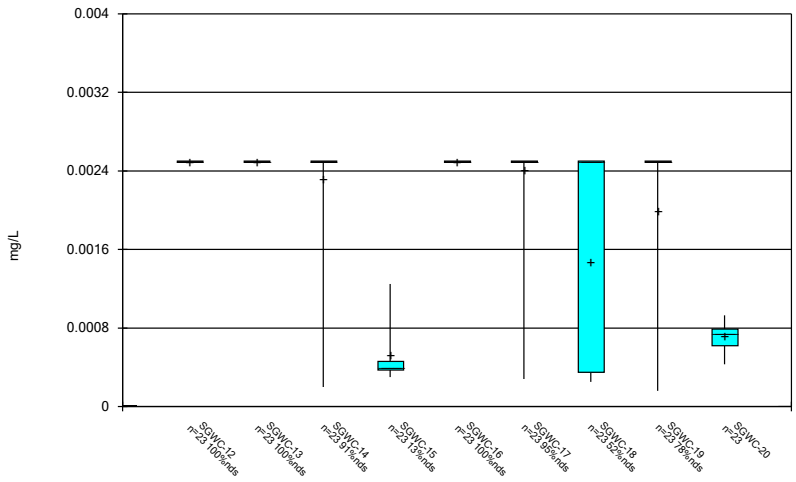


Constituent: Beryllium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

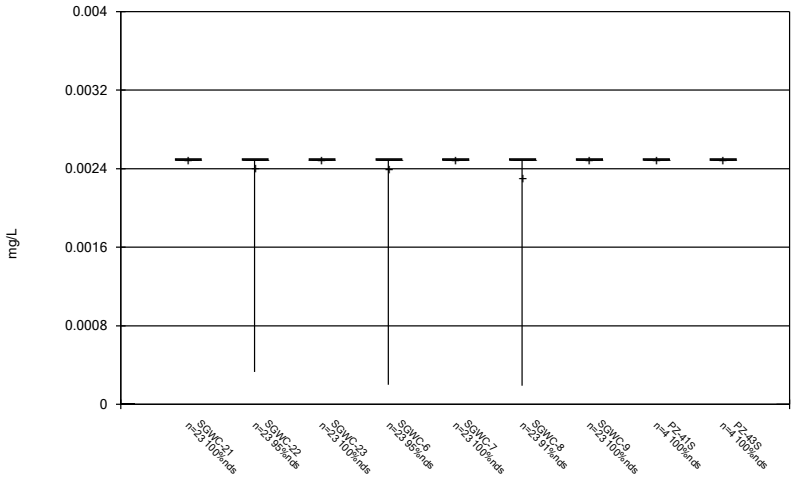


Constituent: Beryllium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

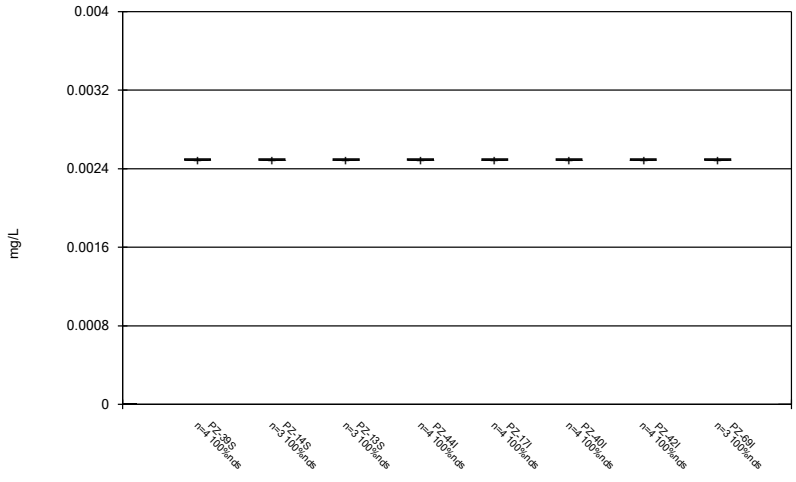


Constituent: Beryllium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

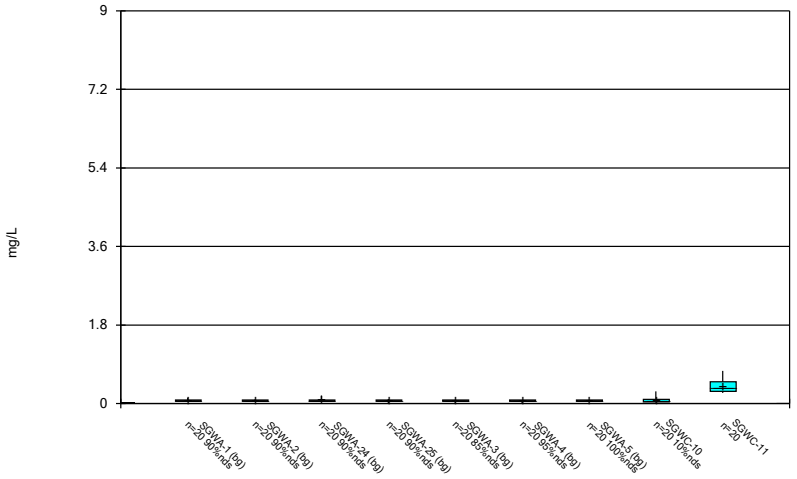
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



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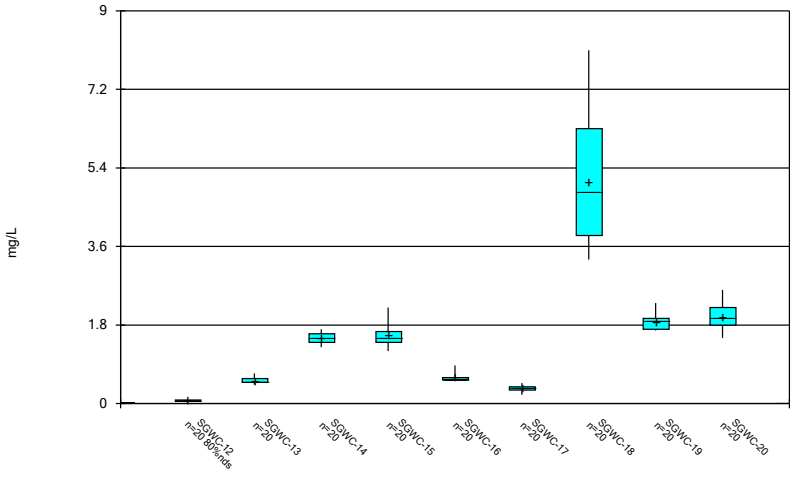
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

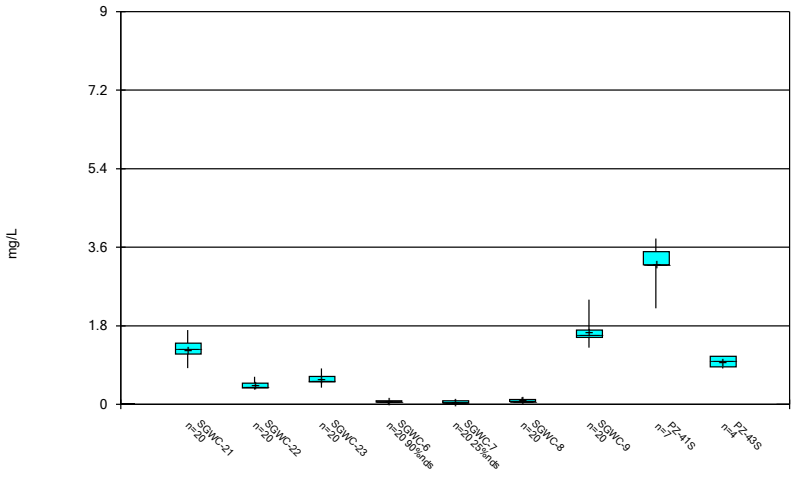


Constituent: Boron, total Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

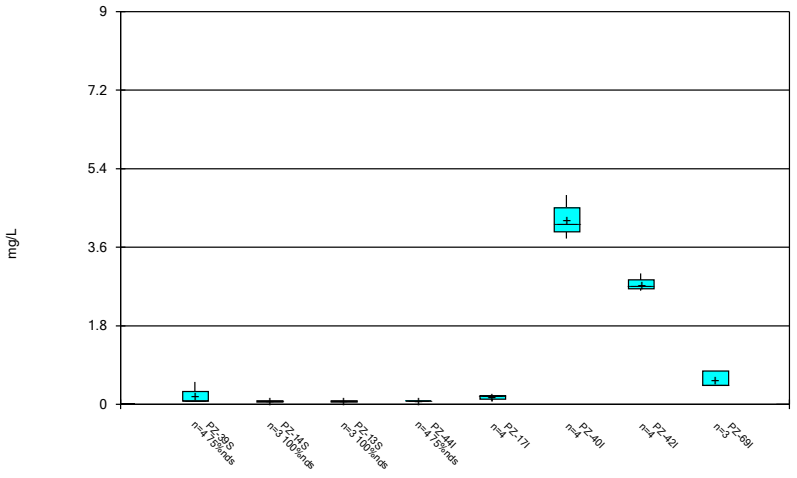


Constituent: Boron, total Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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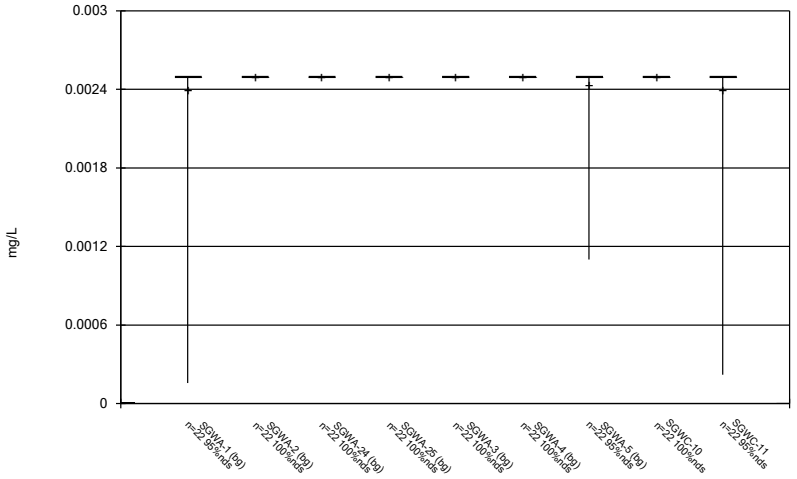
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

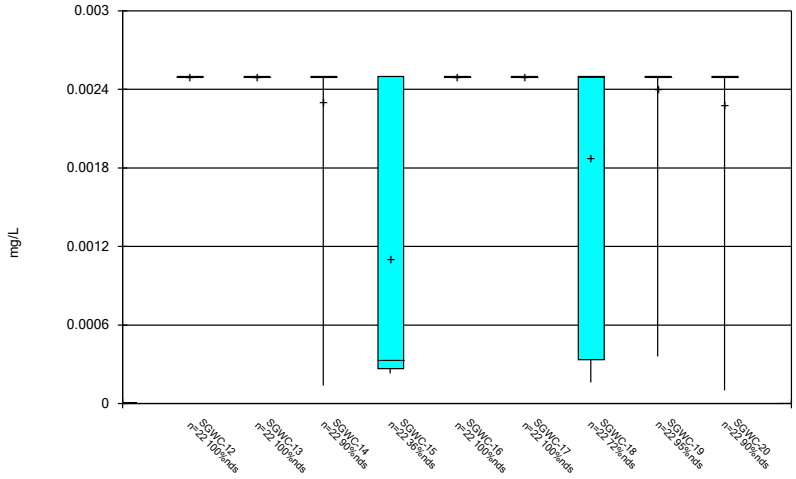


Constituent: Cadmium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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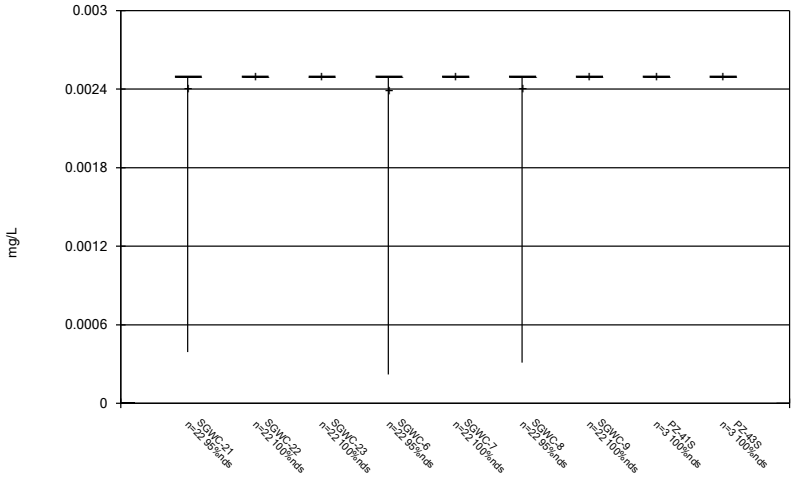
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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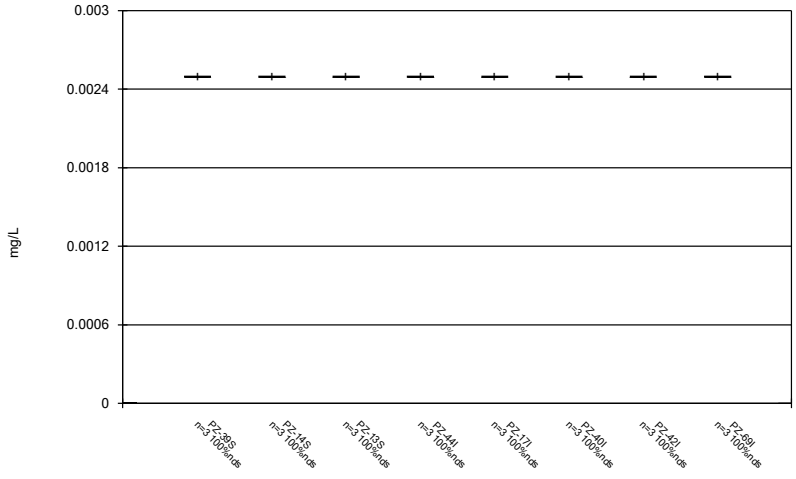
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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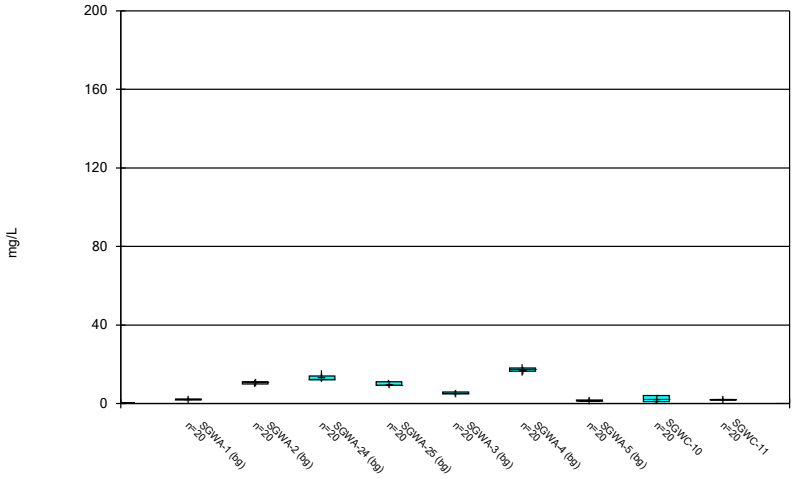
Plant Scherer Client: Southern Company Data: Scherer AP

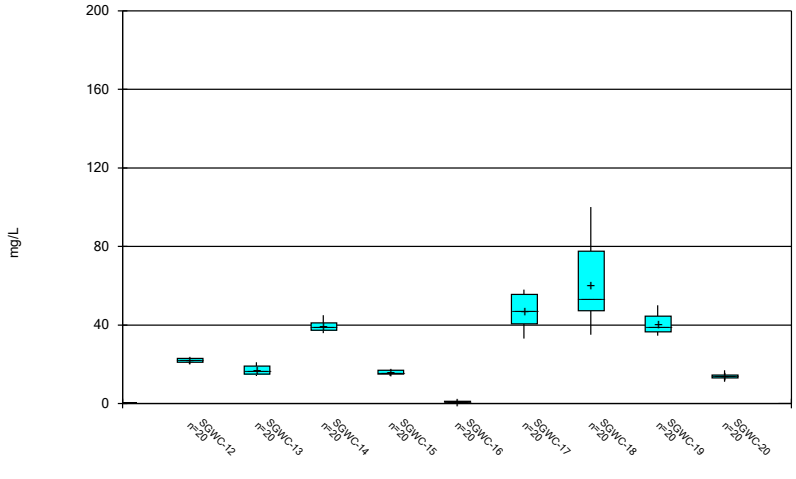
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 5/8/2023 2:13 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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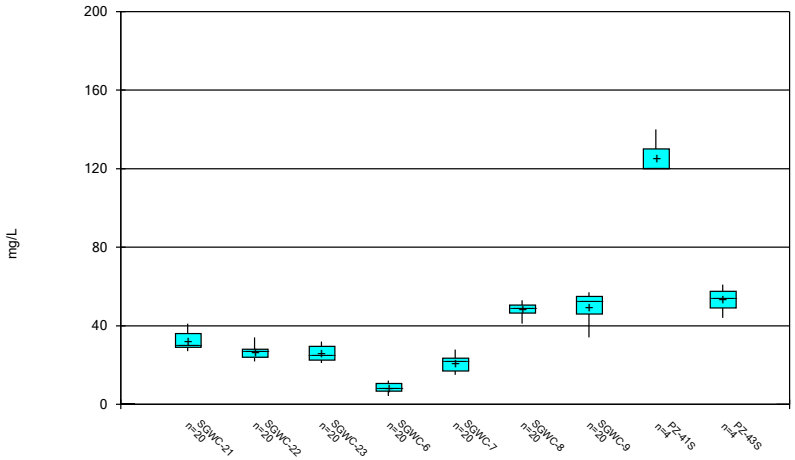
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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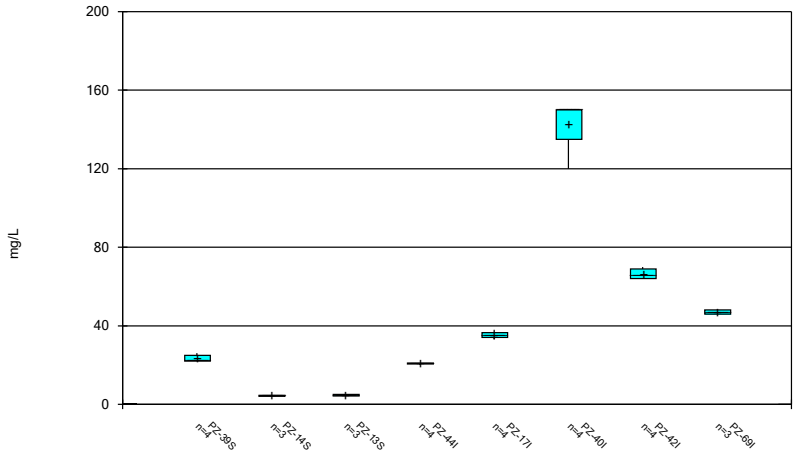
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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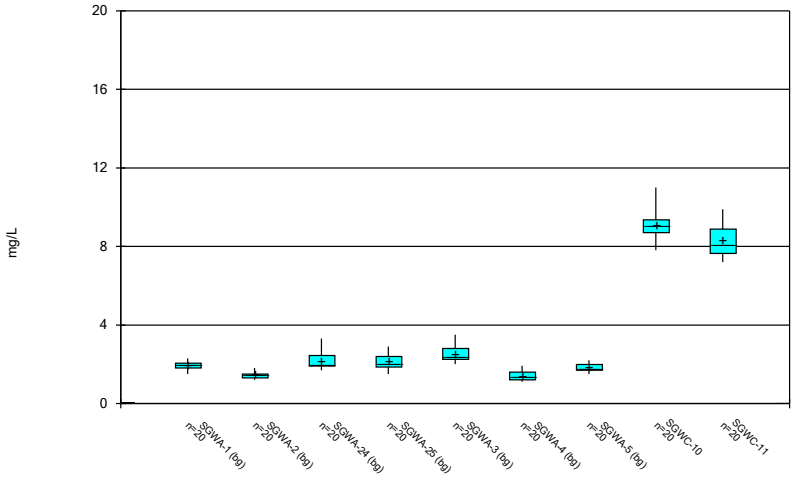
Plant Scherer Client: Southern Company Data: Scherer AP

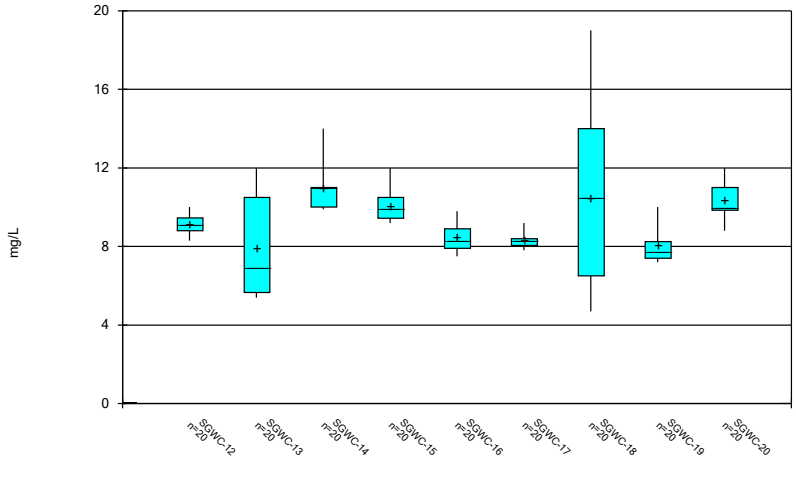
Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 5/8/2023 2:13 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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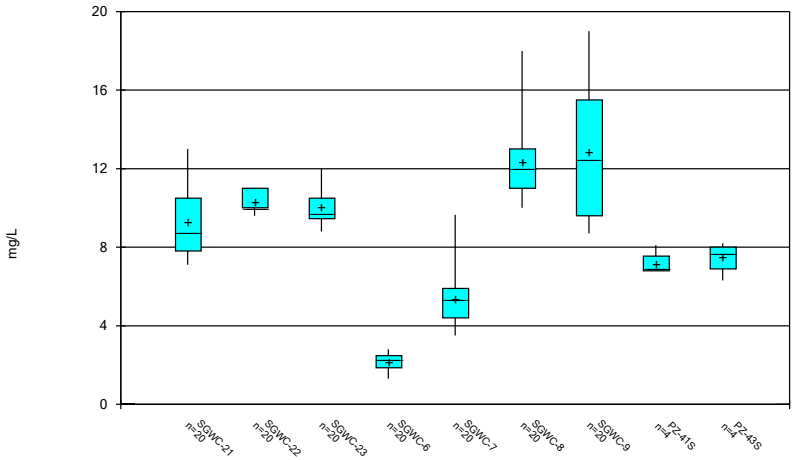
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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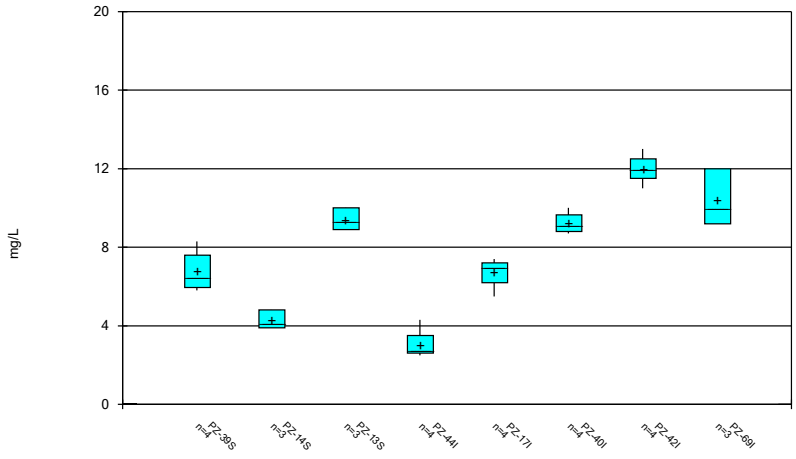
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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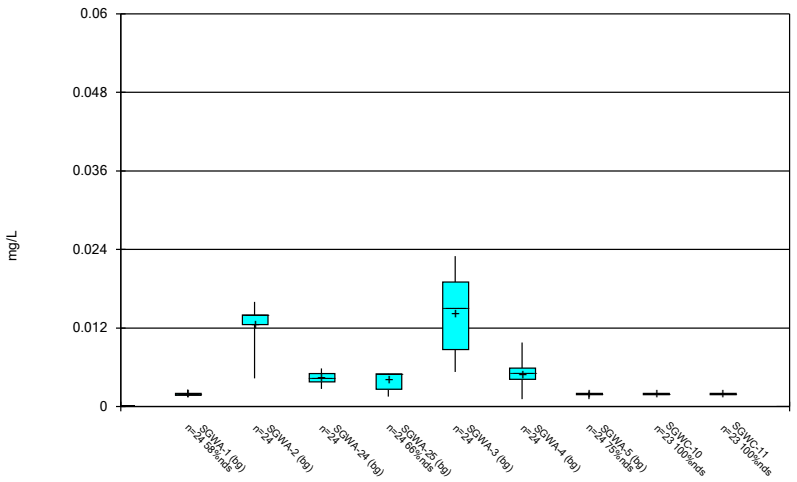
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

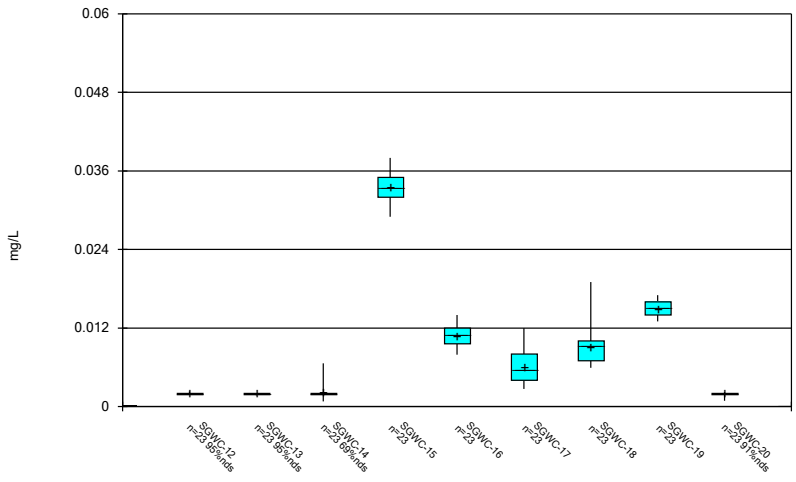


Constituent: Chromium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

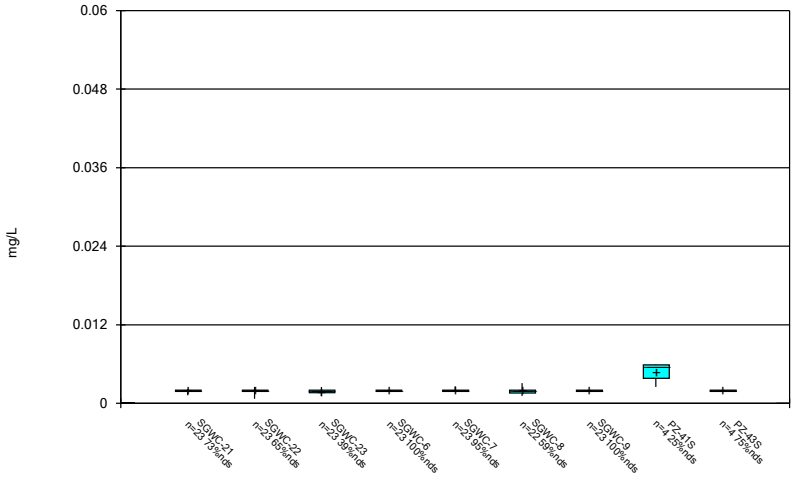


Constituent: Chromium Analysis Run 5/8/2023 2:13 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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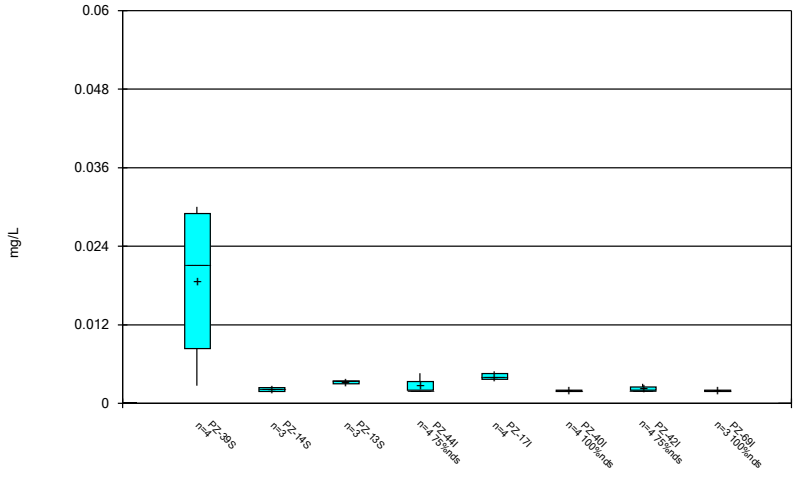
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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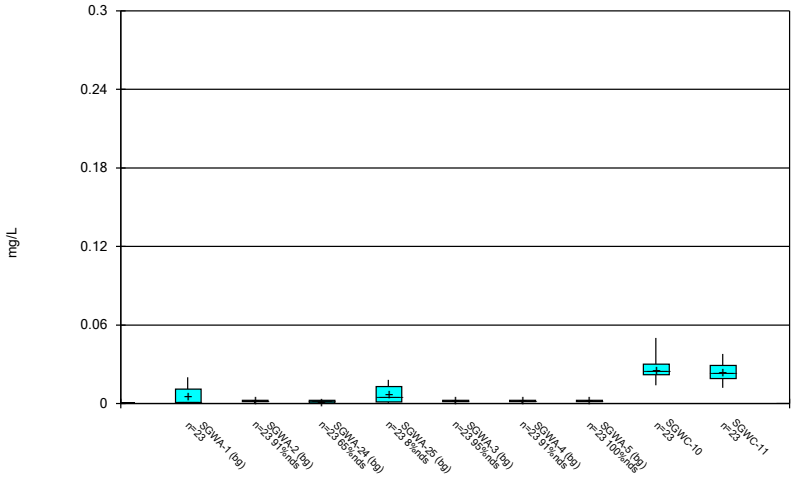
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

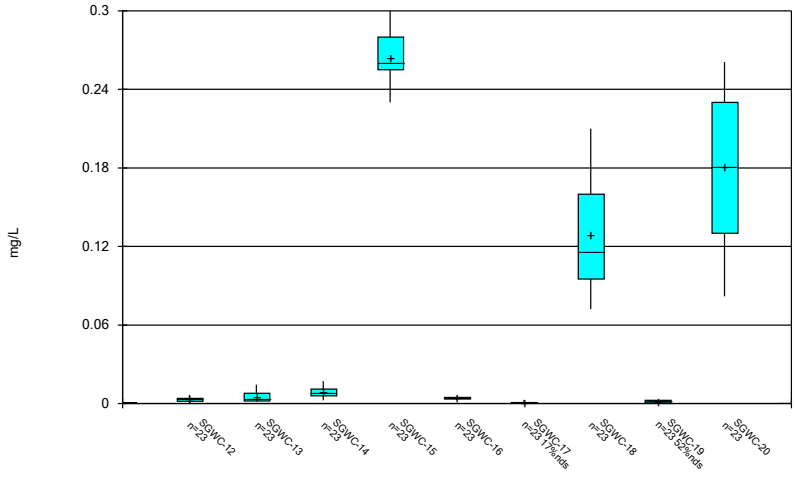


Constituent: Cobalt Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

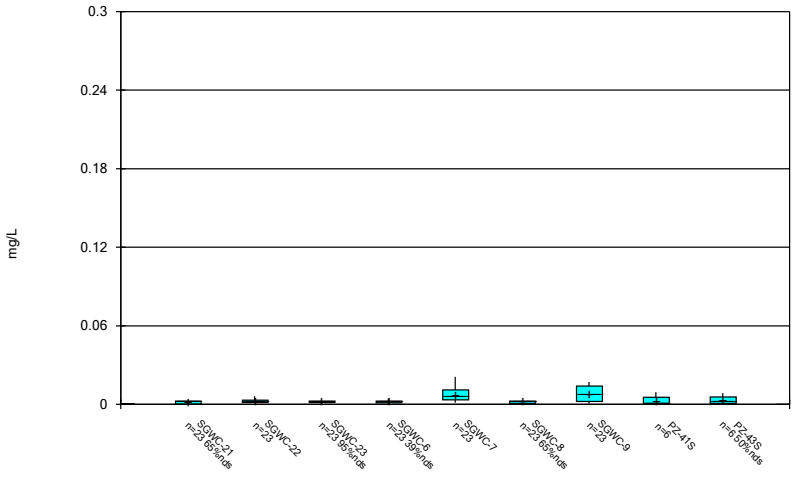


Constituent: Cobalt Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

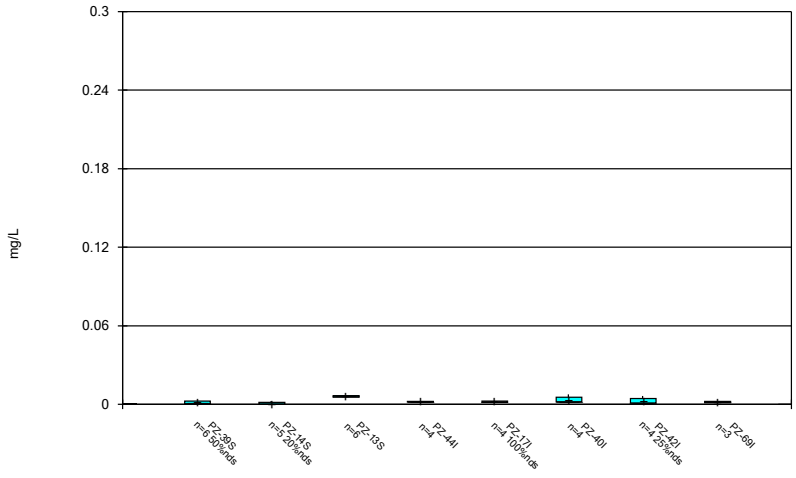


Constituent: Cobalt Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

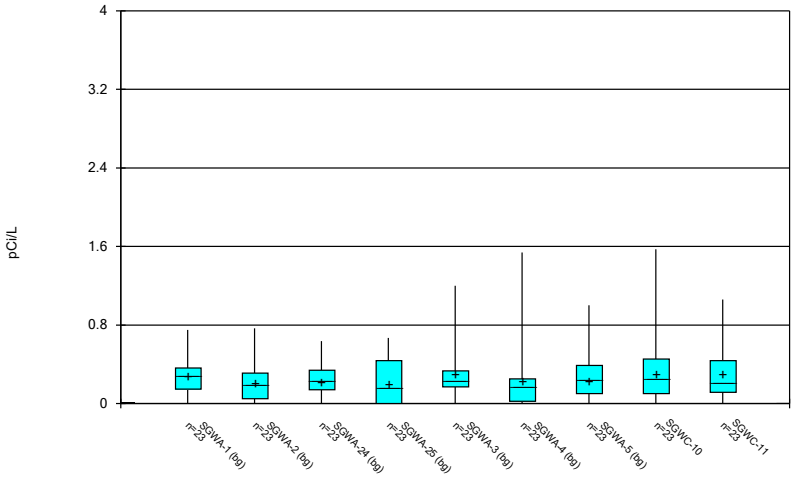
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

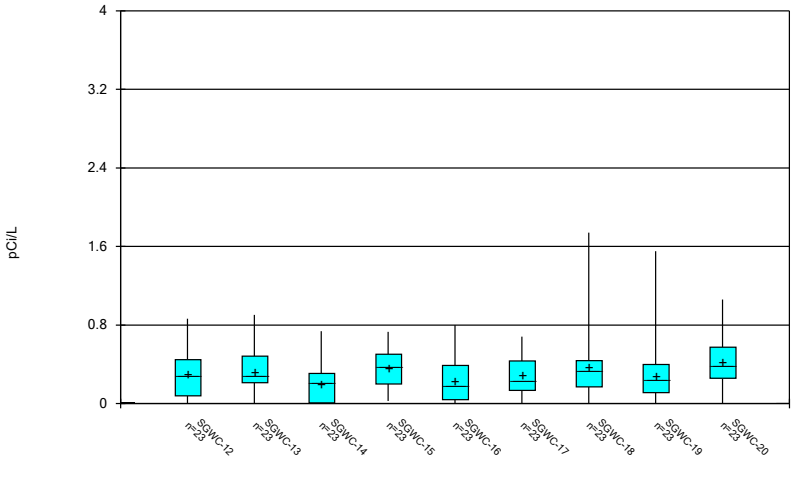


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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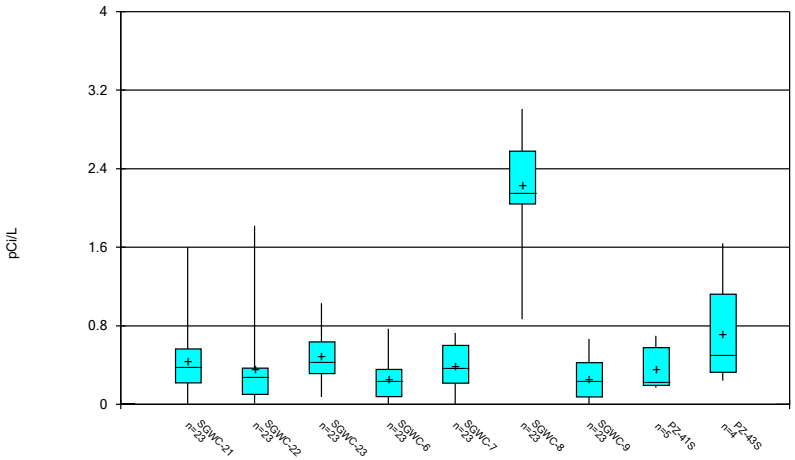
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

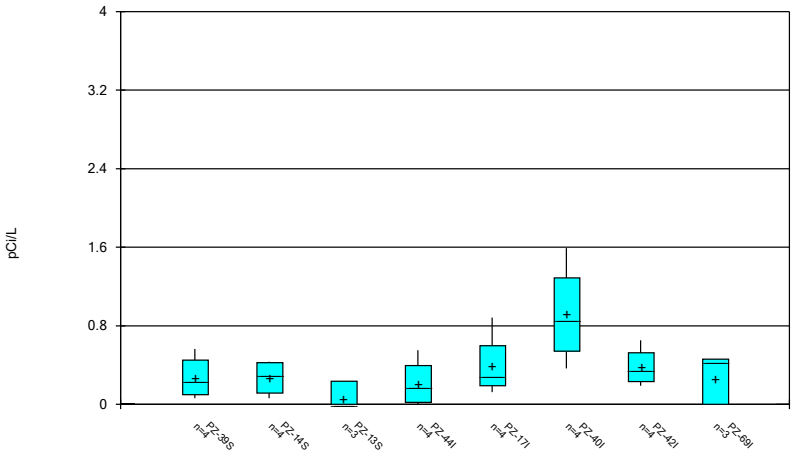


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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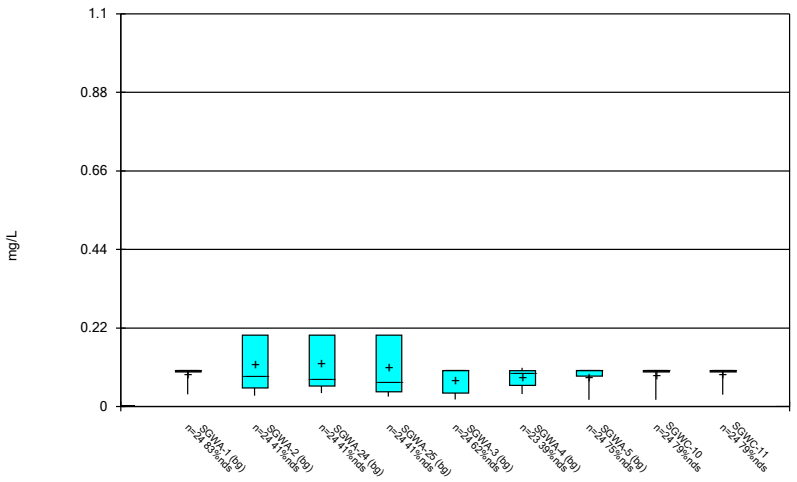
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

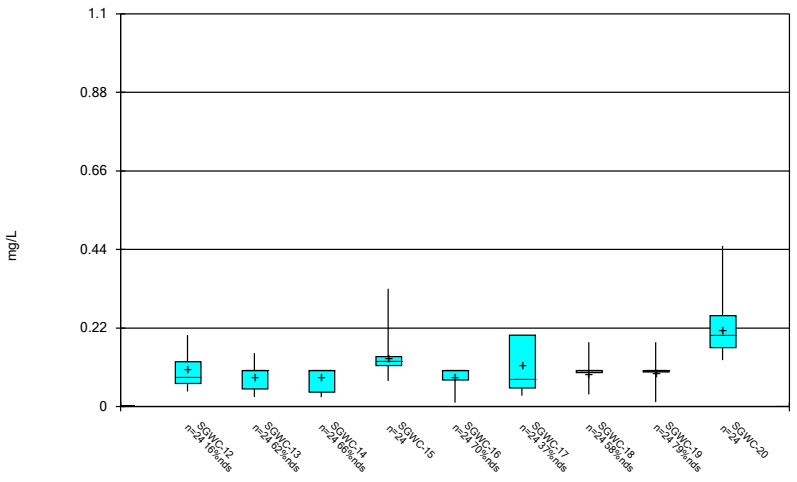


Constituent: Fluoride, total Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

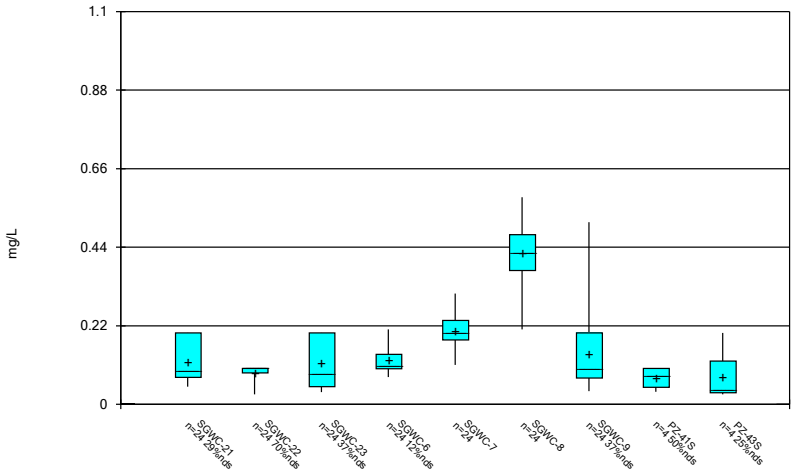


Constituent: Fluoride, total Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

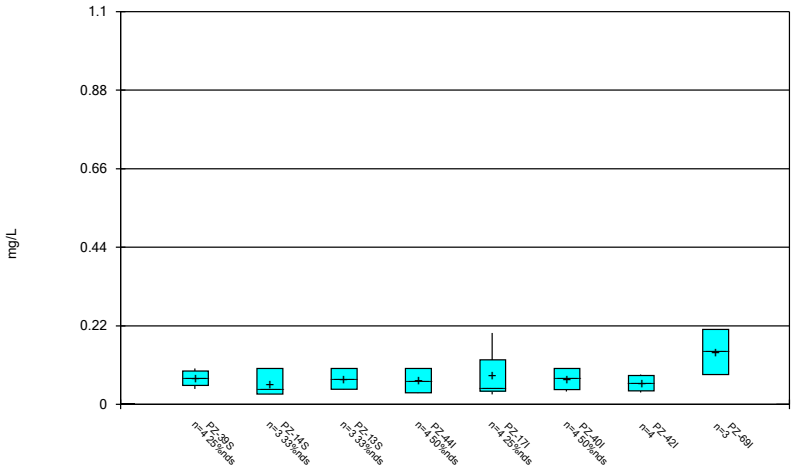


Constituent: Fluoride, total Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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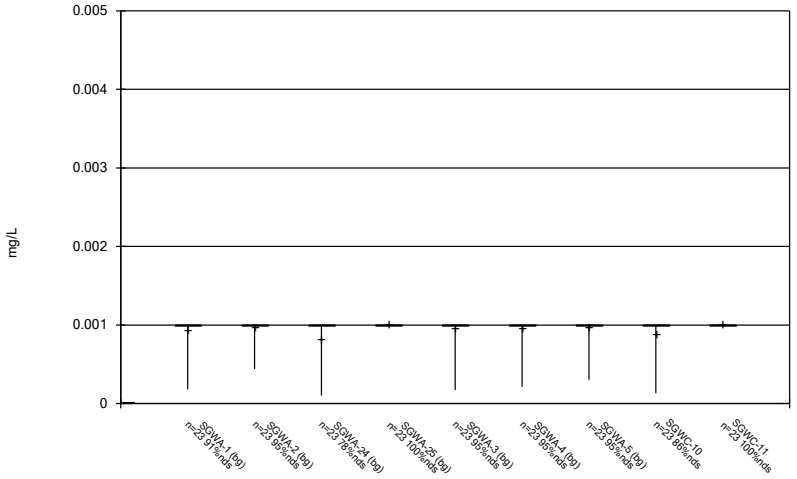
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

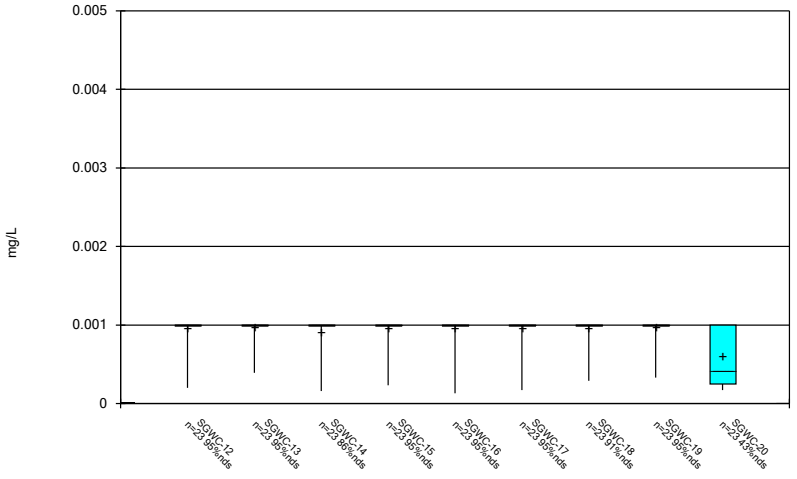


Constituent: Lead Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

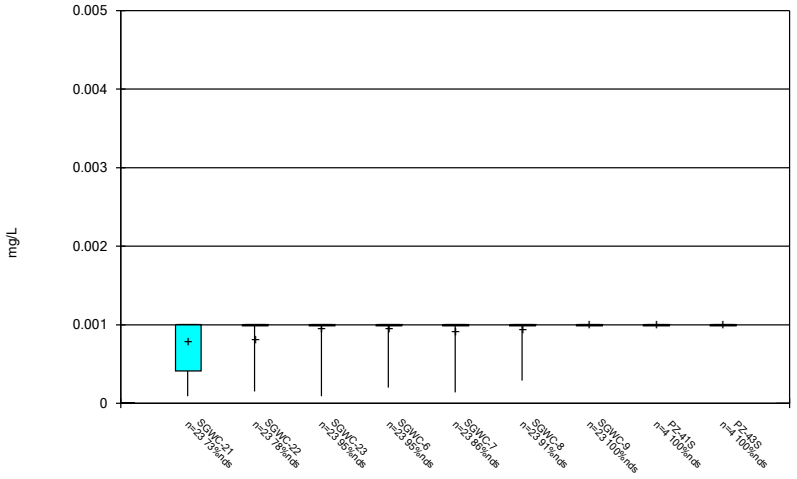


Constituent: Lead Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

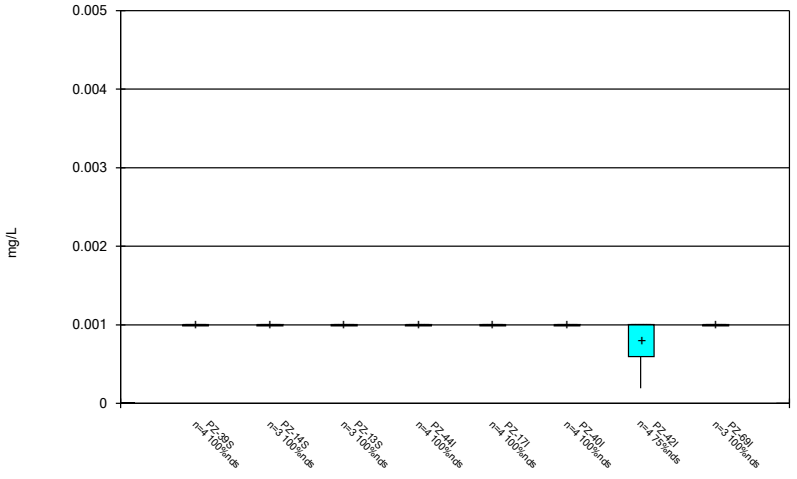


Constituent: Lead Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

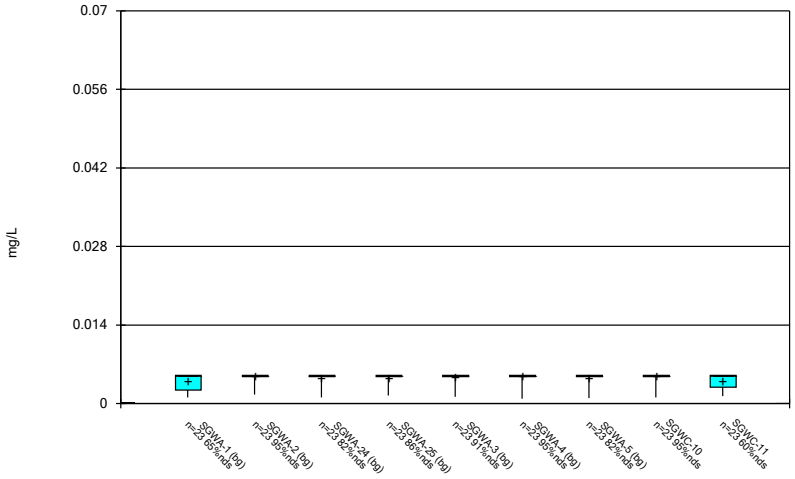
Box & Whiskers Plot



Constituent: Lead Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

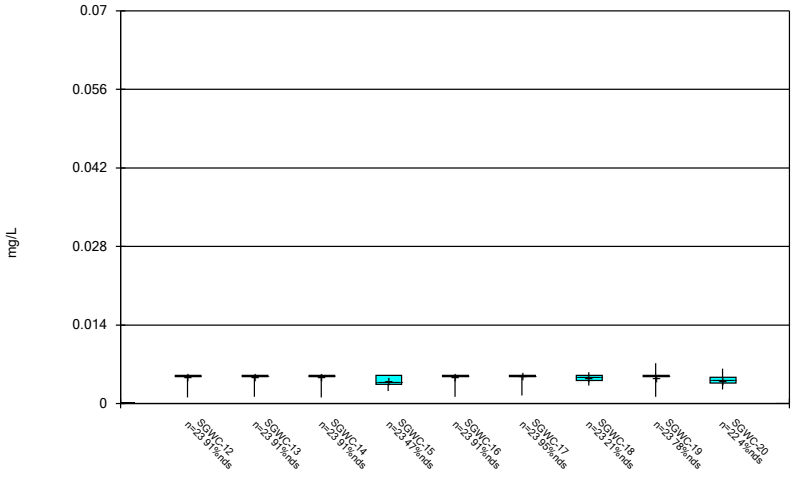


Constituent: Lithium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

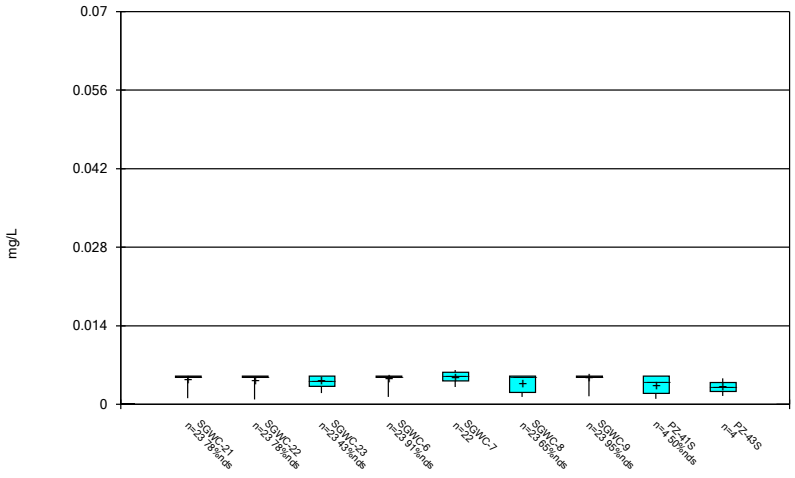


Constituent: Lithium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

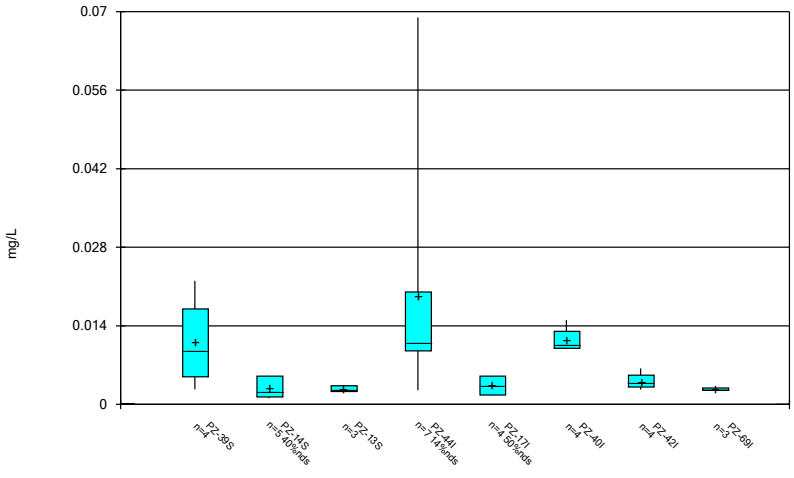


Constituent: Lithium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

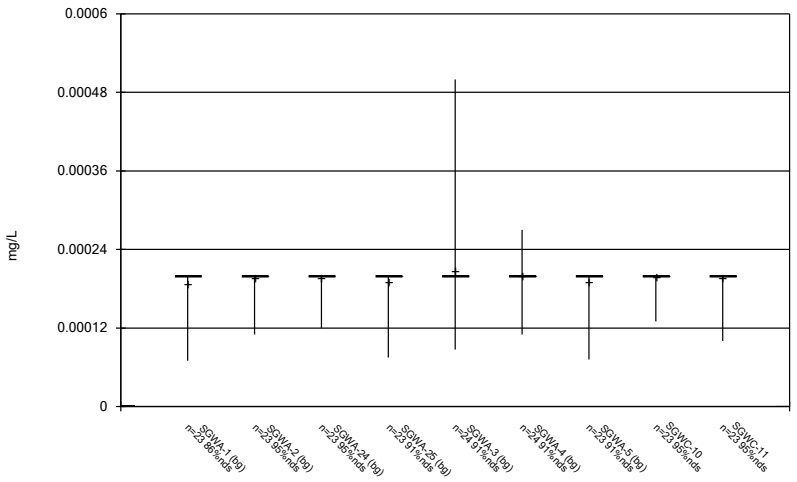
Box & Whiskers Plot



Constituent: Lithium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

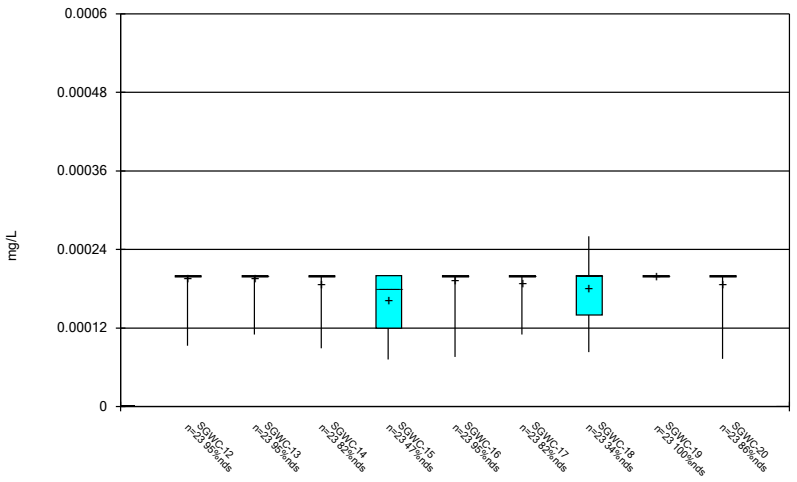


Constituent: Mercury Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

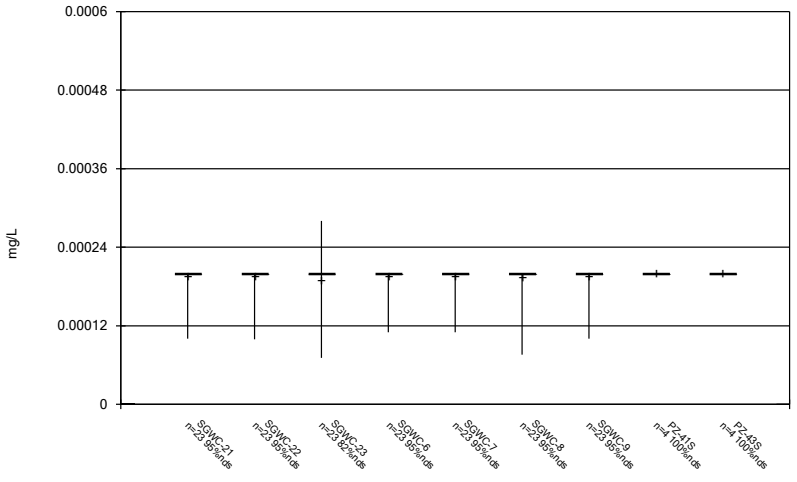


Constituent: Mercury Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

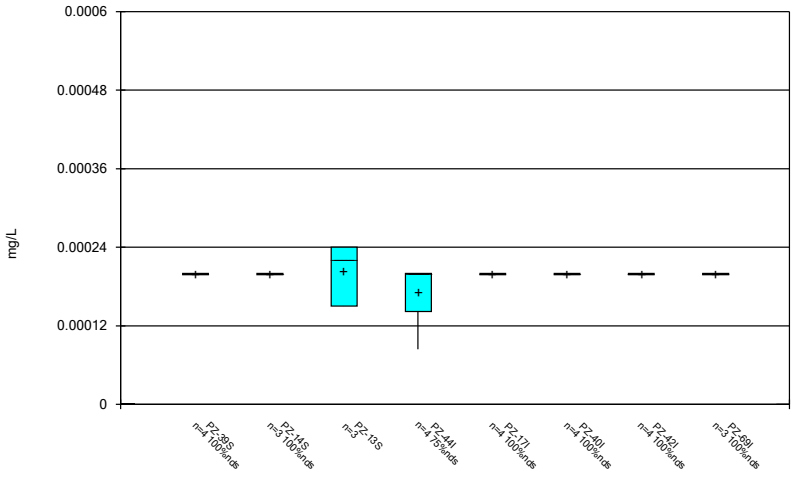


Constituent: Mercury Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

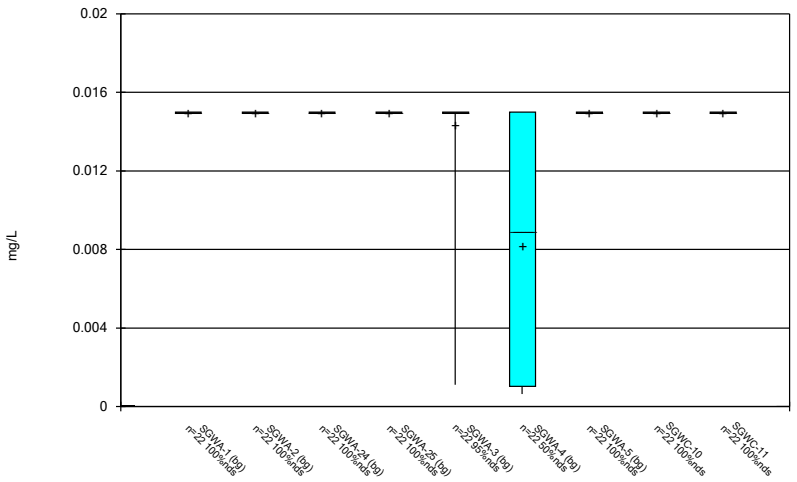
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

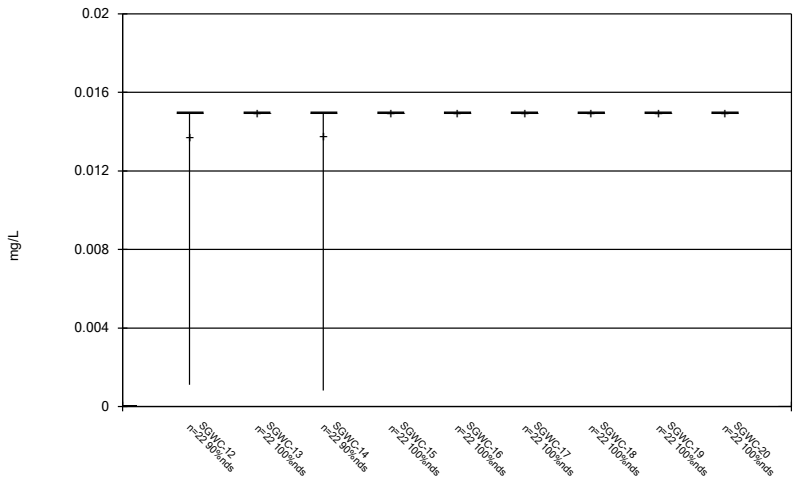


Constituent: Molybdenum Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

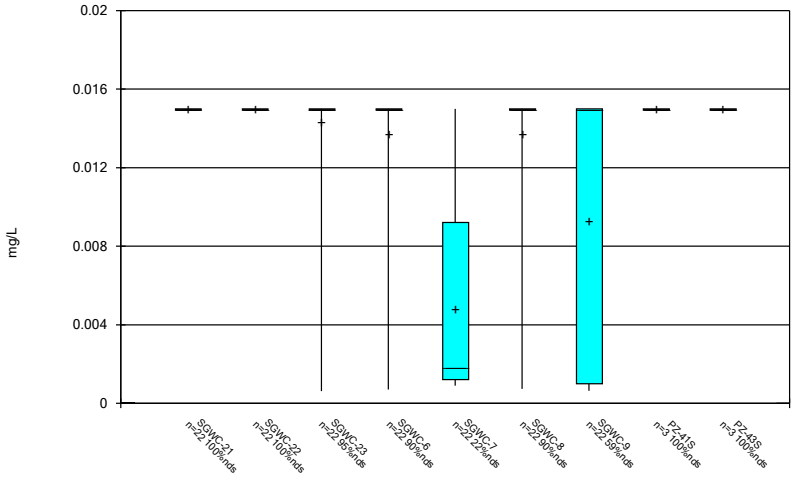


Constituent: Molybdenum Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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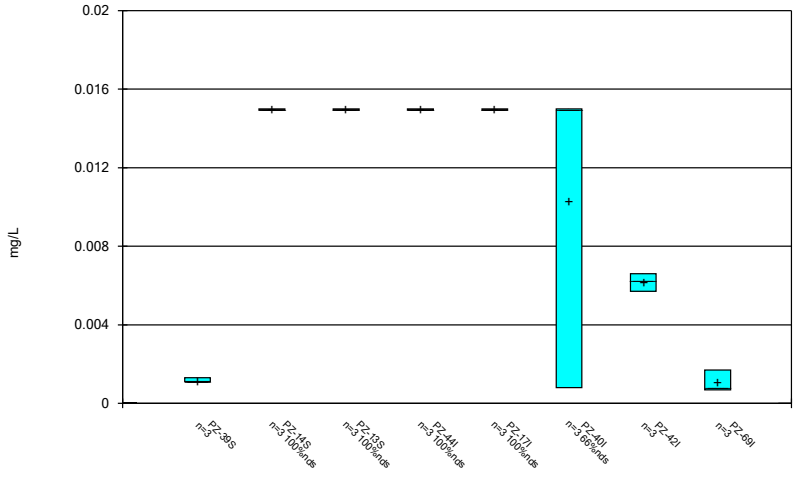
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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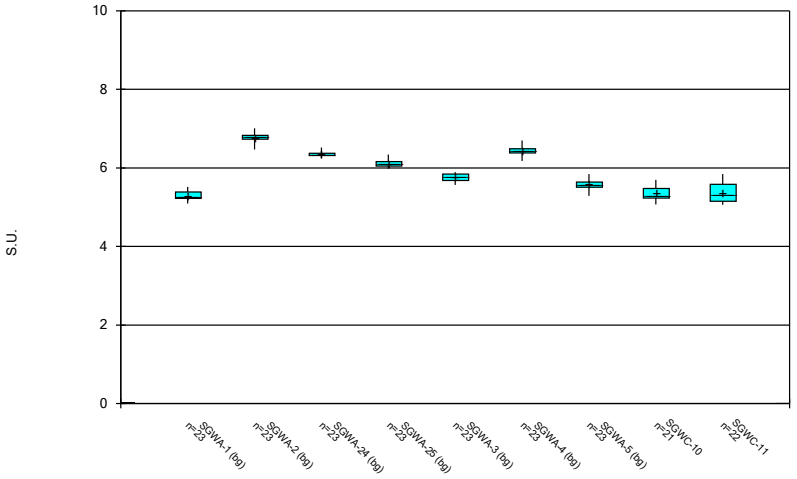
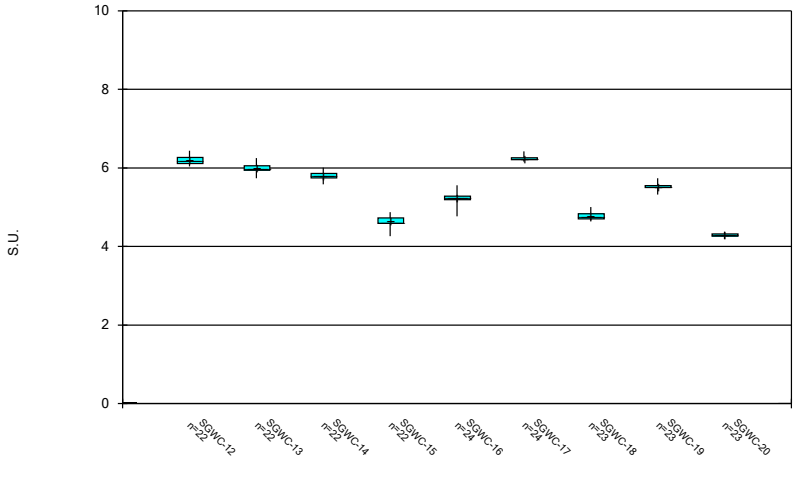


Constituent: pH Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

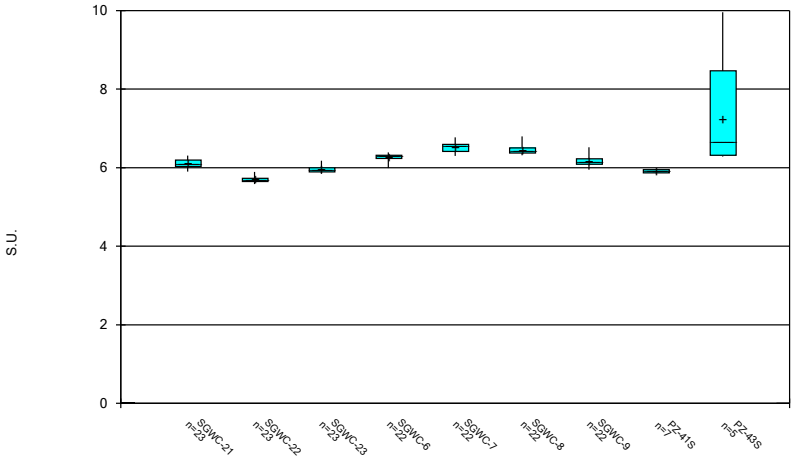


Constituent: pH Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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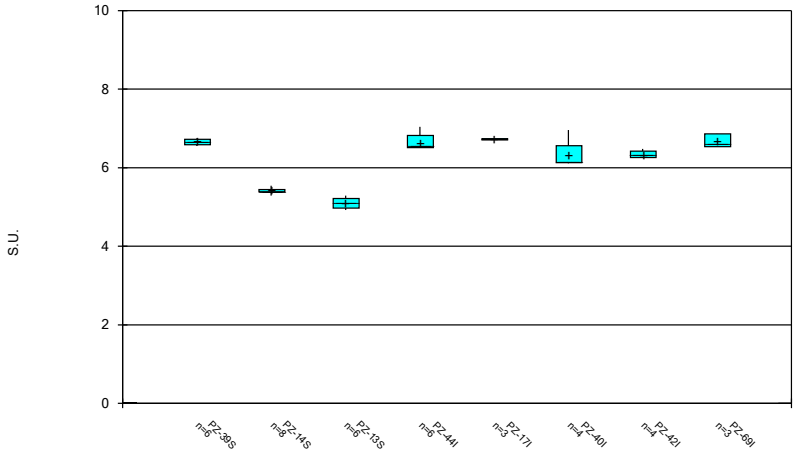
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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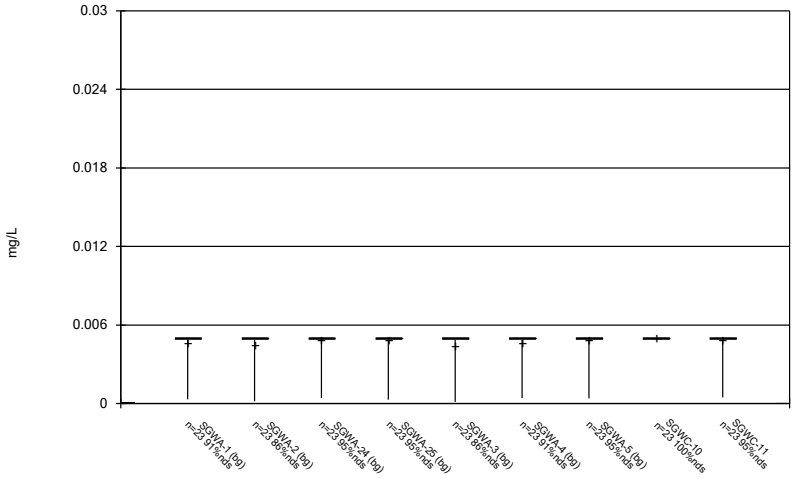
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

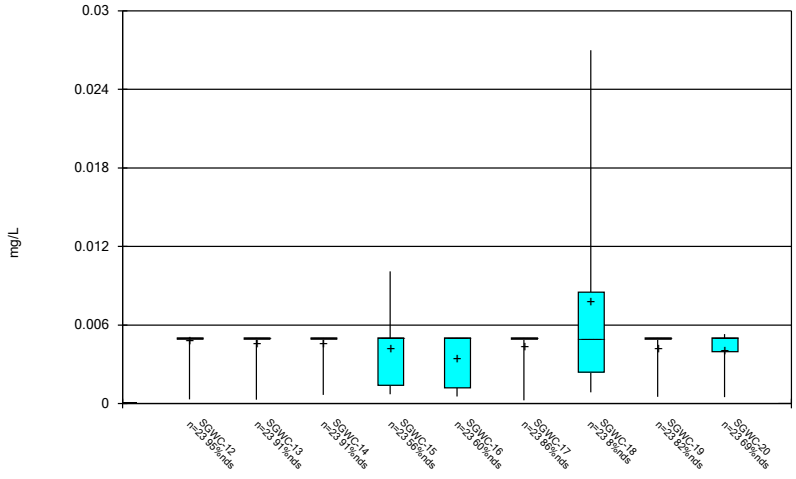


Constituent: Selenium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

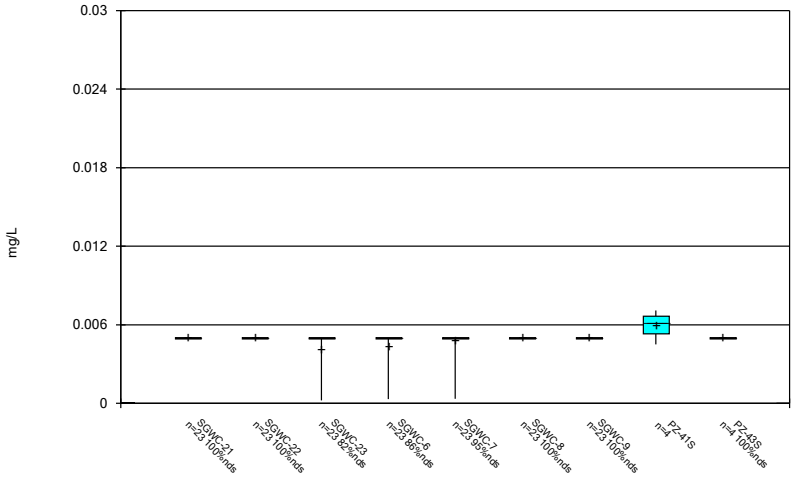


Constituent: Selenium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

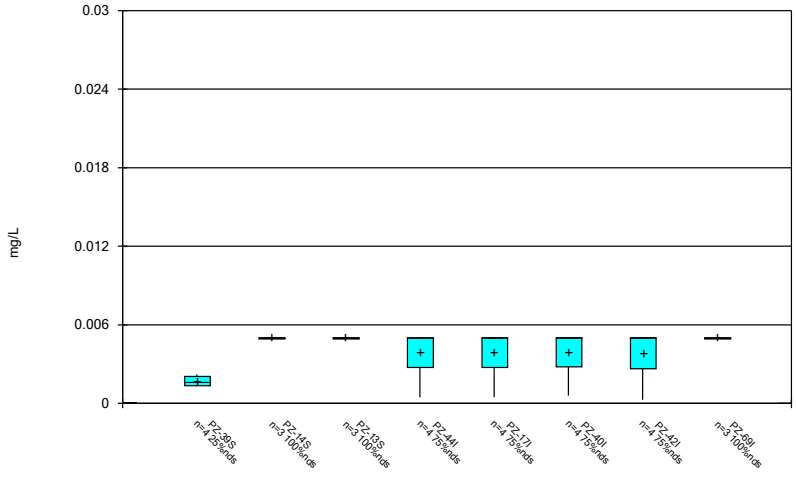


Constituent: Selenium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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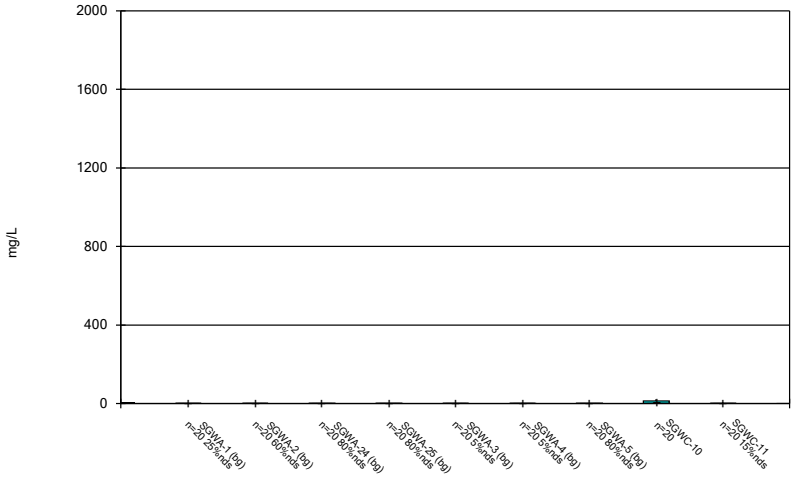
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

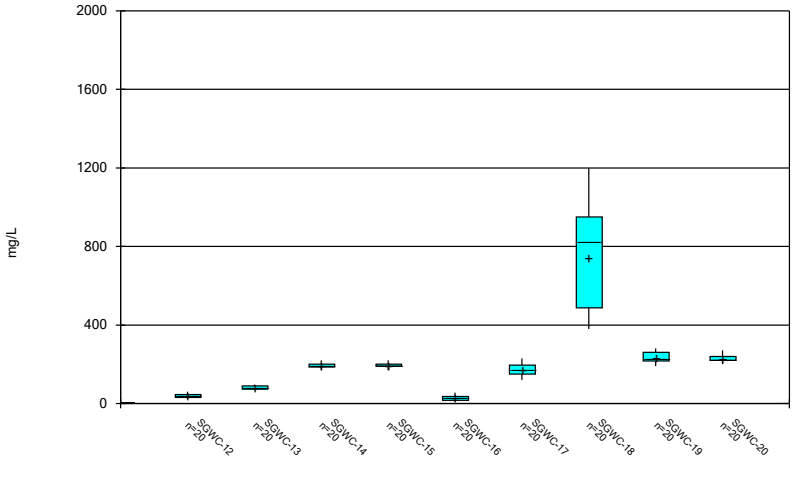


Constituent: Sulfate, total Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

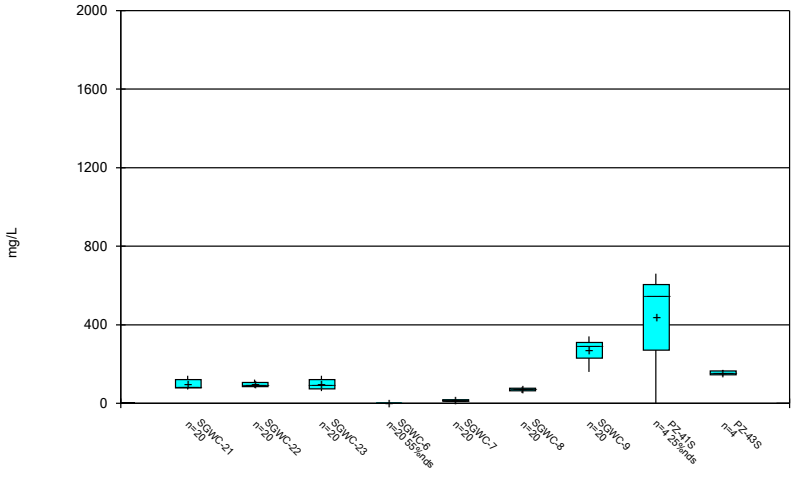


Constituent: Sulfate, total Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

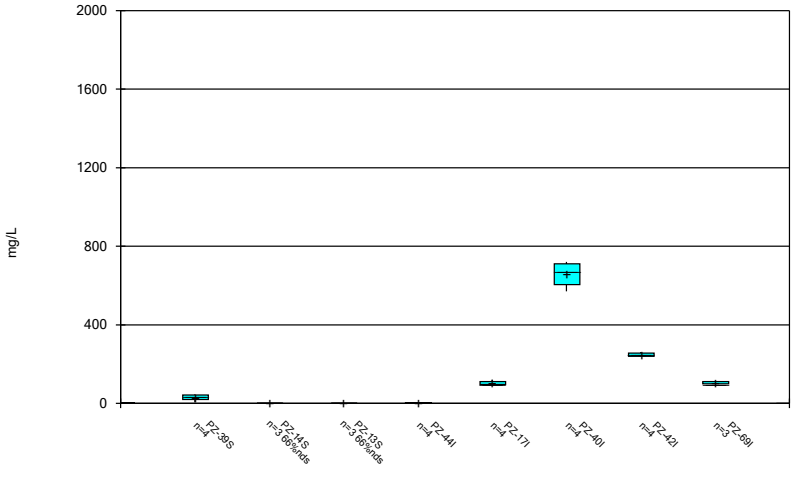


Constituent: Sulfate, total Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

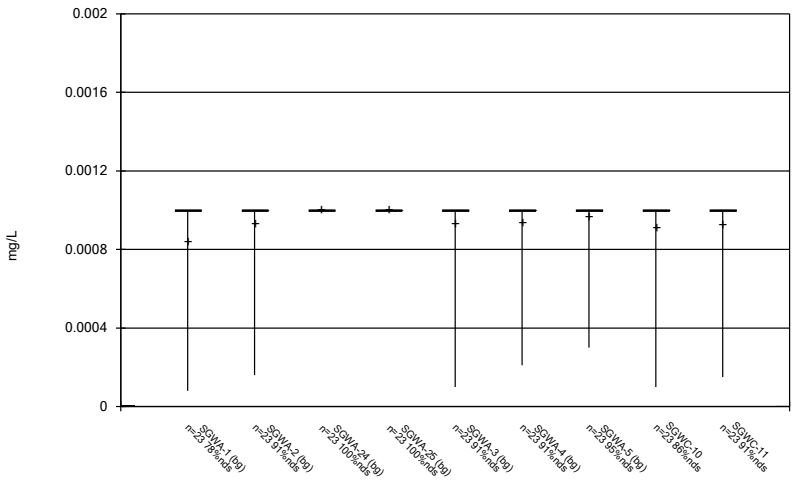
Box & Whiskers Plot



Constituent: Sulfate, total Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot

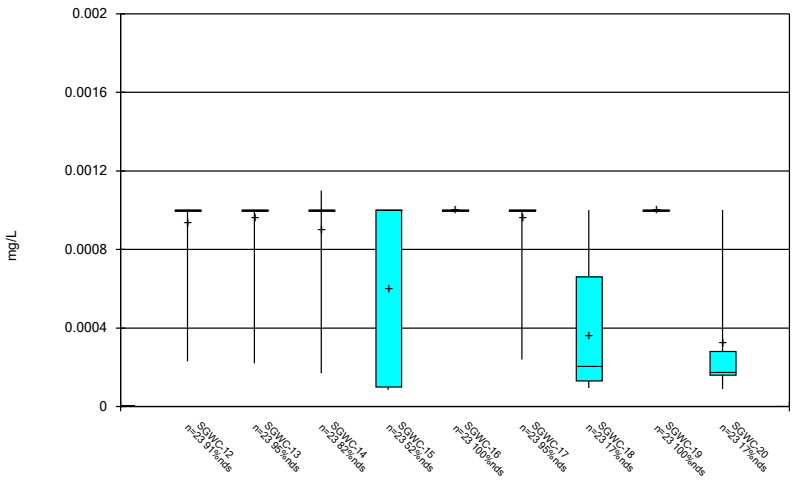


Constituent: Thallium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

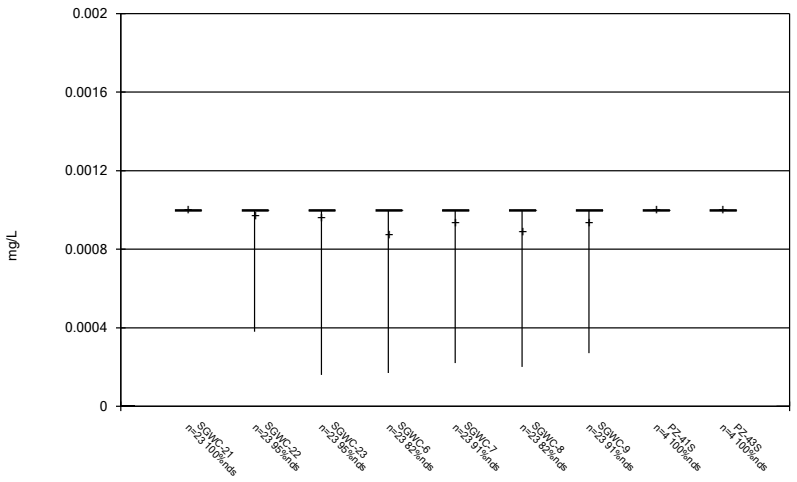


Constituent: Thallium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

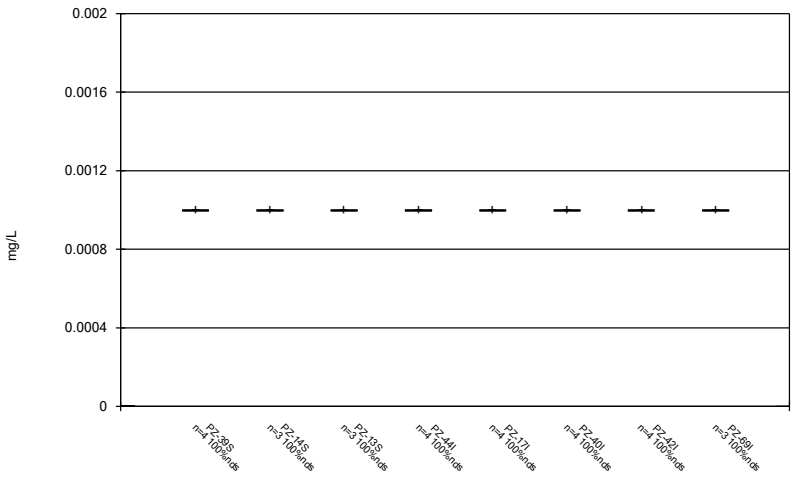


Constituent: Thallium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

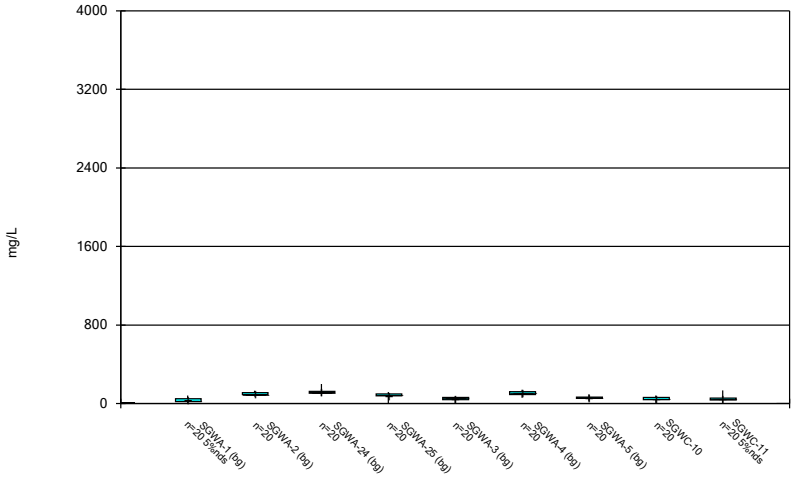
Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

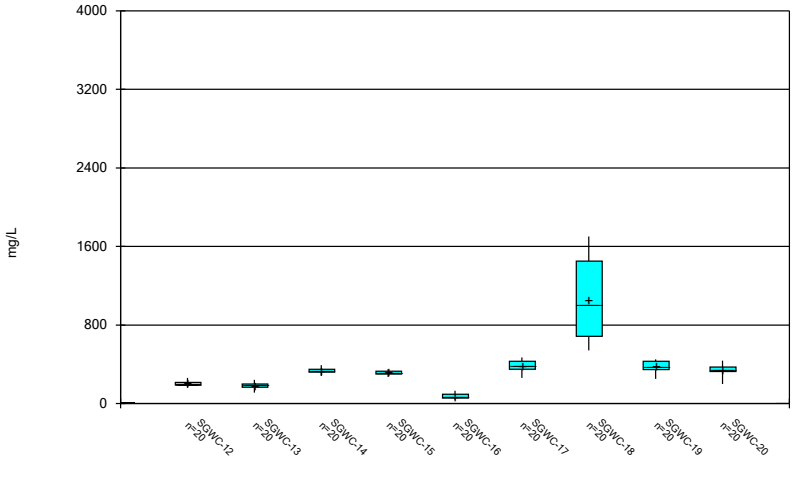
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

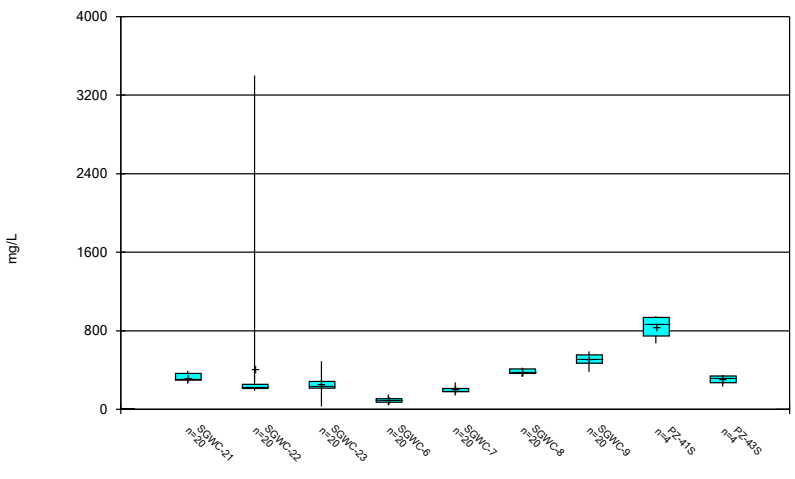
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

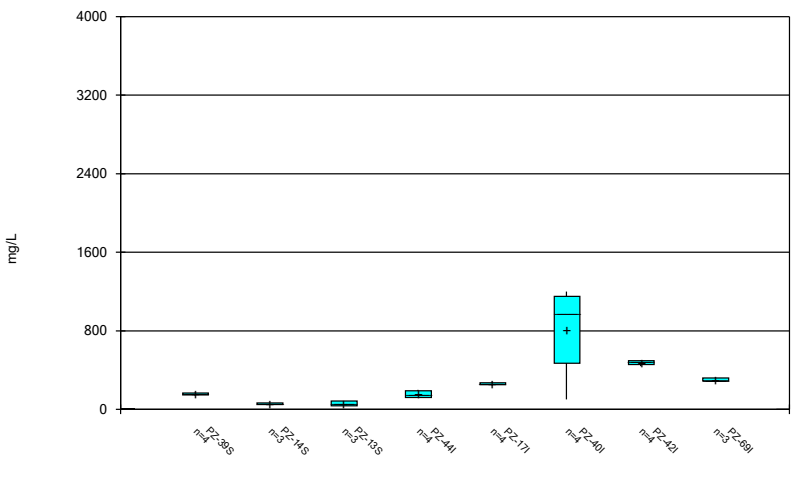
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 2:14 PM

Plant Scherer Client: Southern Company Data: Scherer AP

FIGURE C.

Outlier Summary

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 2:09 PM

	SGWC-8 Chromium (mg/L)	SGWA-4 Fluoride, total (mg/L)	SGWC-20 Lithium (mg/L)	SGWC-7 Lithium (mg/L)
5/11/2016				<0.05 (O)
5/12/2016			<0.05 (O)	
8/18/2022	0.055 (o)			
2/22/2023		0.6 (o)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-10	0.18	n/a	2/22/2023	0.28	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-11	0.18	n/a	2/22/2023	0.75	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-13	0.18	n/a	2/23/2023	0.69	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-14	0.18	n/a	2/23/2023	1.7	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-15	0.18	n/a	2/23/2023	2.2	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-16	0.18	n/a	2/23/2023	0.87	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-17	0.18	n/a	2/22/2023	0.34	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-18	0.18	n/a	2/22/2023	8.1	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-19	0.18	n/a	2/22/2023	2	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-20	0.18	n/a	2/22/2023	1.7	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-21	0.18	n/a	2/23/2023	1.3	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-22	0.18	n/a	2/23/2023	0.63	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-23	0.18	n/a	2/23/2023	0.81	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-9	0.18	n/a	2/22/2023	1.6	Yes	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	SGWC-12	20	n/a	2/23/2023	21	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-14	20	n/a	2/23/2023	37	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-17	20	n/a	2/22/2023	56	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-18	20	n/a	2/22/2023	41	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-19	20	n/a	2/22/2023	38	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-21	20	n/a	2/23/2023	34	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-22	20	n/a	2/23/2023	34	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-23	20	n/a	2/23/2023	22	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-8	20	n/a	2/22/2023	41	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-9	20	n/a	2/22/2023	36	Yes	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	SGWC-10	3.132	n/a	2/22/2023	9	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3.132	n/a	2/22/2023	9.9	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3.132	n/a	2/23/2023	9.6	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3.132	n/a	2/23/2023	11	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3.132	n/a	2/23/2023	12	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3.132	n/a	2/23/2023	11	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3.132	n/a	2/23/2023	9.8	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3.132	n/a	2/22/2023	8.1	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3.132	n/a	2/22/2023	13	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3.132	n/a	2/22/2023	10	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3.132	n/a	2/22/2023	8.8	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3.132	n/a	2/23/2023	8.9	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3.132	n/a	2/23/2023	11	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3.132	n/a	2/23/2023	12	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3.132	n/a	2/22/2023	3.6	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3.132	n/a	2/22/2023	18	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3.132	n/a	2/22/2023	18	Yes	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-8	0.16	n/a	2/22/2023	0.52	Yes	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-15	7.01	5.09	2/23/2023	4.59	Yes	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-18	7.01	5.09	2/22/2023	5	Yes	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-20	7.01	5.09	2/22/2023	4.38	Yes	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-10	3.75	n/a	2/22/2023	18	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-12	3.75	n/a	2/23/2023	57	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-13	3.75	n/a	2/23/2023	96	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-14	3.75	n/a	2/23/2023	210	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-15	3.75	n/a	2/23/2023	190	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-16	3.75	n/a	2/23/2023	55	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-17	3.75	n/a	2/22/2023	230	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-18	3.75	n/a	2/22/2023	790	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-19	3.75	n/a	2/22/2023	260	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-20	3.75	n/a	2/22/2023	230	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate, total (mg/L)	SGWC-21	3.75	n/a	2/23/2023	120	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-22	3.75	n/a	2/23/2023	120	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-23	3.75	n/a	2/23/2023	64	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-7	3.75	n/a	2/22/2023	6.7	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-8	3.75	n/a	2/22/2023	52	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-9	3.75	n/a	2/22/2023	200	Yes	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-12	200	n/a	2/23/2023	220	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-13	200	n/a	2/23/2023	230	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	2/23/2023	390	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	2/23/2023	300	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	2/22/2023	470	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	2/22/2023	1200	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	2/22/2023	440	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	2/22/2023	350	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	2/23/2023	350	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	2/23/2023	260	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	2/23/2023	210	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	2/22/2023	350	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	2/22/2023	430	Yes	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	**SGWC-10**	**0.18**	**n/a**	**2/22/2023**	**0.28**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-11**	**0.18**	**n/a**	**2/22/2023**	**0.75**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	SGWC-12	0.18	n/a	2/23/2023	0.079J	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**SGWC-13**	**0.18**	**n/a**	**2/23/2023**	**0.69**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-14**	**0.18**	**n/a**	**2/23/2023**	**1.7**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-15**	**0.18**	**n/a**	**2/23/2023**	**2.2**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-16**	**0.18**	**n/a**	**2/23/2023**	**0.87**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-17**	**0.18**	**n/a**	**2/22/2023**	**0.34**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-18**	**0.18**	**n/a**	**2/22/2023**	**8.1**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-19**	**0.18**	**n/a**	**2/22/2023**	**2**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-20**	**0.18**	**n/a**	**2/22/2023**	**1.7**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-21**	**0.18**	**n/a**	**2/23/2023**	**1.3**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-22**	**0.18**	**n/a**	**2/23/2023**	**0.63**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**SGWC-23**	**0.18**	**n/a**	**2/23/2023**	**0.81**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	SGWC-6	0.18	n/a	2/22/2023	0.08ND	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-7	0.18	n/a	2/22/2023	0.064J	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-8	0.18	n/a	2/22/2023	0.11	No	140	n/a	n/a	91.43	n/a	n/a	0.00009905	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**SGWC-9**	**0.18**	**n/a**	**2/22/2023**	**1.6**	**Yes**	**140**	**n/a**	**n/a**	**91.43**	**n/a**	**n/a**	**0.00009905**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	SGWC-10	20	n/a	2/22/2023	2.2	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-11	20	n/a	2/22/2023	1.7	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-12**	**20**	**n/a**	**2/23/2023**	**21**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-13	20	n/a	2/23/2023	20	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-14**	**20**	**n/a**	**2/23/2023**	**37**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-15	20	n/a	2/23/2023	14	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-16	20	n/a	2/23/2023	1.3	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-17**	**20**	**n/a**	**2/22/2023**	**56**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-18**	**20**	**n/a**	**2/22/2023**	**41**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-19**	**20**	**n/a**	**2/22/2023**	**38**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-20	20	n/a	2/22/2023	14	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-21**	**20**	**n/a**	**2/23/2023**	**34**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-22**	**20**	**n/a**	**2/23/2023**	**34**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-23**	**20**	**n/a**	**2/23/2023**	**22**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	SGWC-6	20	n/a	2/22/2023	10	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-7	20	n/a	2/22/2023	15	No	140	n/a	n/a	0	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**SGWC-8**	**20**	**n/a**	**2/22/2023**	**41**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**SGWC-9**	**20**	**n/a**	**2/22/2023**	**36**	**Yes**	**140**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**SGWC-10**	**3.132**	**n/a**	**2/22/2023**	**9**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-11**	**3.132**	**n/a**	**2/22/2023**	**9.9**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-12**	**3.132**	**n/a**	**2/23/2023**	**9.6**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-13**	**3.132**	**n/a**	**2/23/2023**	**11**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-14**	**3.132**	**n/a**	**2/23/2023**	**12**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-15**	**3.132**	**n/a**	**2/23/2023**	**11**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-16**	**3.132**	**n/a**	**2/23/2023**	**9.8**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-17**	**3.132**	**n/a**	**2/22/2023**	**8.1**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-18**	**3.132**	**n/a**	**2/22/2023**	**13**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-19**	**3.132**	**n/a**	**2/22/2023**	**10**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-20**	**3.132**	**n/a**	**2/22/2023**	**8.8**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-21**	**3.132**	**n/a**	**2/23/2023**	**8.9**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-22**	**3.132**	**n/a**	**2/23/2023**	**11**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-23**	**3.132**	**n/a**	**2/23/2023**	**12**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	SGWC-6	3.132	n/a	2/22/2023	2.3	No	140	0.6258	0.2478	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	**SGWC-7**	**3.132**	**n/a**	**2/22/2023**	**3.6**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-8**	**3.132**	**n/a**	**2/22/2023**	**18**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**SGWC-9**	**3.132**	**n/a**	**2/22/2023**	**18**	**Yes**	**140**	**0.6258**	**0.2478**	**0**	**None**	**ln(x)**	**0.000418**	**Param Inter 1 of 2**
Fluoride, total (mg/L)	SGWC-10	0.16	n/a	2/22/2023	0.045J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-11	0.16	n/a	2/22/2023	0.063J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-12	0.16	n/a	2/23/2023	0.089J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-13	0.16	n/a	2/23/2023	0.077J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-14	0.16	n/a	2/23/2023	0.068J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-15	0.16	n/a	2/23/2023	0.11	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-16	0.16	n/a	2/23/2023	0.045J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-17	0.16	n/a	2/22/2023	0.06J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-18	0.16	n/a	2/22/2023	0.061J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-19	0.16	n/a	2/22/2023	0.046J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-20	0.16	n/a	2/22/2023	0.13	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-21	0.16	n/a	2/23/2023	0.087J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-22	0.16	n/a	2/23/2023	0.075J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-23	0.16	n/a	2/23/2023	0.089J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-6	0.16	n/a	2/22/2023	0.11	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-7	0.16	n/a	2/22/2023	0.16	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**SGWC-8**	**0.16**	**n/a**	**2/22/2023**	**0.52**	**Yes**	**167**	**n/a**	**n/a**	**55.09**	**n/a**	**n/a**	**0.00007067**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	SGWC-9	0.16	n/a	2/22/2023	0.076J	No	167	n/a	n/a	55.09	n/a	n/a	0.00007067	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-10	7.01	5.09	2/22/2023	5.23	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-11	7.01	5.09	2/22/2023	5.1	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-12	7.01	5.09	2/23/2023	6.04	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-13	7.01	5.09	2/23/2023	5.94	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-14	7.01	5.09	2/23/2023	5.72	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	**SGWC-15**	**7.01**	**5.09**	**2/23/2023**	**4.59**	**Yes**	**161**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001508**	**NP Inter (normality) 1 of 2**
pH (S.U.)	SGWC-16	7.01	5.09	2/23/2023	5.13	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-17	7.01	5.09	2/22/2023	6.23	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	**SGWC-18**	**7.01**	**5.09**	**2/22/2023**	**5**	**Yes**	**161**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001508**	**NP Inter (normality) 1 of 2**
pH (S.U.)	SGWC-19	7.01	5.09	2/22/2023	5.53	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	**SGWC-20**	**7.01**	**5.09**	**2/22/2023**	**4.38**	**Yes**	**161**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001508**	**NP Inter (normality) 1 of 2**
pH (S.U.)	SGWC-21	7.01	5.09	2/23/2023	6.19	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-22	7.01	5.09	2/23/2023	5.72	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-23	7.01	5.09	2/23/2023	6	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-6	7.01	5.09	2/22/2023	6.28	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-7	7.01	5.09	2/22/2023	6.51	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-8	7.01	5.09	2/22/2023	6.51	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-9	7.01	5.09	2/22/2023	6.14	No	161	n/a	n/a	0	n/a	n/a	0.0001508	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	**SGWC-10**	**3.75**	**n/a**	**2/22/2023**	**18**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	SGWC-11	3.75	n/a	2/22/2023	3.1	No	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	**SGWC-12**	**3.75**	**n/a**	**2/23/2023**	**57**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-13**	**3.75**	**n/a**	**2/23/2023**	**96**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-14**	**3.75**	**n/a**	**2/23/2023**	**210**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-15**	**3.75**	**n/a**	**2/23/2023**	**190**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-16**	**3.75**	**n/a**	**2/23/2023**	**55**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-17**	**3.75**	**n/a**	**2/22/2023**	**230**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-18**	**3.75**	**n/a**	**2/22/2023**	**790**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-19**	**3.75**	**n/a**	**2/22/2023**	**260**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-20**	**3.75**	**n/a**	**2/22/2023**	**230**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-21**	**3.75**	**n/a**	**2/23/2023**	**120**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-22**	**3.75**	**n/a**	**2/23/2023**	**120**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-23**	**3.75**	**n/a**	**2/23/2023**	**64**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	SGWC-6	3.75	n/a	2/22/2023	1.4	No	140	n/a	n/a	47.86	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	**SGWC-7**	**3.75**	**n/a**	**2/22/2023**	**6.7**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-8**	**3.75**	**n/a**	**2/22/2023**	**52**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Sulfate, total (mg/L)	**SGWC-9**	**3.75**	**n/a**	**2/22/2023**	**200**	**Yes**	**140**	**n/a**	**n/a**	**47.86**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	SGWC-10	200	n/a	2/22/2023	56	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-11	200	n/a	2/22/2023	41	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**SGWC-12**	**200**	**n/a**	**2/23/2023**	**220**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-13**	**200**	**n/a**	**2/23/2023**	**230**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-14**	**200**	**n/a**	**2/23/2023**	**390**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-15**	**200**	**n/a**	**2/23/2023**	**300**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	SGWC-16	200	n/a	2/23/2023	130	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**SGWC-17**	**200**	**n/a**	**2/22/2023**	**470**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-18**	**200**	**n/a**	**2/22/2023**	**1200**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-19**	**200**	**n/a**	**2/22/2023**	**440**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-20**	**200**	**n/a**	**2/22/2023**	**350**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-21**	**200**	**n/a**	**2/23/2023**	**350**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-22**	**200**	**n/a**	**2/23/2023**	**260**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-23**	**200**	**n/a**	**2/23/2023**	**210**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	SGWC-6	200	n/a	2/22/2023	120	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-7	200	n/a	2/22/2023	170	No	140	n/a	n/a	0.7143	n/a	n/a	0.00009905	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**SGWC-8**	**200**	**n/a**	**2/22/2023**	**350**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-9**	**200**	**n/a**	**2/22/2023**	**430**	**Yes**	**140**	**n/a**	**n/a**	**0.7143**	**n/a**	**n/a**	**0.00009905**	**NP Inter (normality) 1 of 2**

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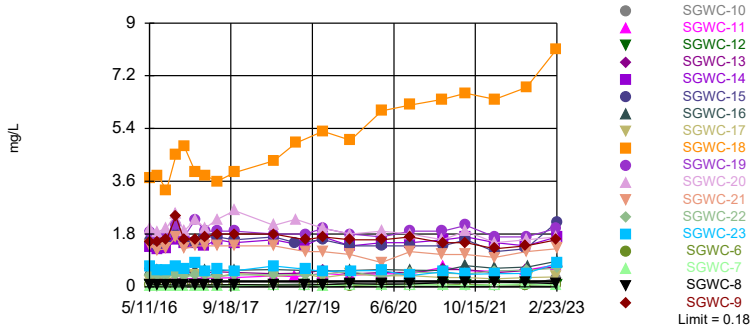
Hollow symbols indicate censored values.

Exceeds Limit: SGWC-10, SGWC-11, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 140 background values. 91.43% NDs. Annual per-constituent alpha = 0.00356. Individual comparison alpha = 0.00009905 (1 of 2). Comparing 18 points to limit.

Constituent: Boron, total Analysis Run 5/8/2023 1:40 PM View: Appendix III
Plant Scherer Client: Southern Company Data: Scherer AP

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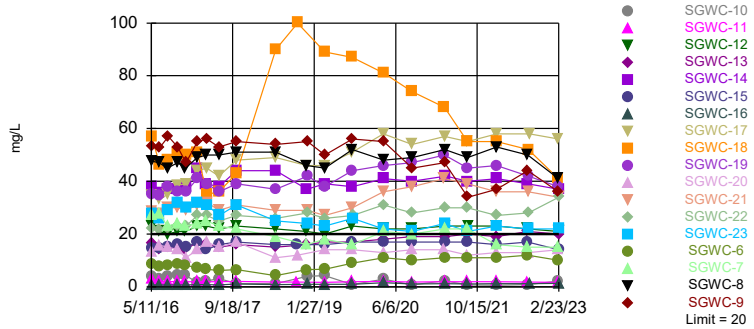
Exceeds Limit: SGWC-12, SGWC-14, SGWC-17, SGWC-18, SGWC-19, SGWC-21, SGWC-22, SGWC-23, SGWC-8, SGWC-9

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 140 background values. Annual per-constituent alpha = 0.00356. Individual comparison alpha = 0.00009905 (1 of 2). Comparing 18 points to limit.

Constituent: Calcium, total Analysis Run 5/8/2023 1:40 PM View: Appendix III
Plant Scherer Client: Southern Company Data: Scherer AP

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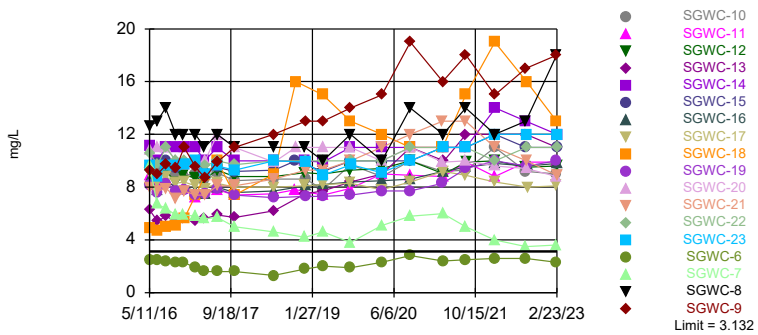
Exceeds Limit: SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19...

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=0.6258, Std. Dev.=0.2478, n=140. Normality test: Chi Squared @alpha = 0.01, calculated = 8.286, critical = 14.07. Kappa = 2.081 (c=7, w=18, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000418. Comparing 18 points to limit.

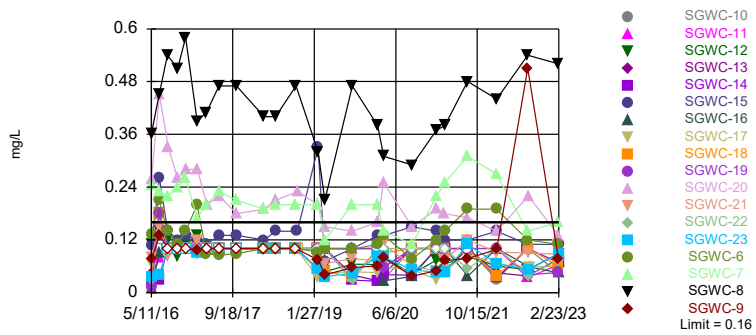
Constituent: Chloride, Total Analysis Run 5/8/2023 1:40 PM View: Appendix III
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: SGWC-8

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 167 background values. 55.09% NDs. Annual per-constituent alpha = 0.002541. Individual comparison alpha = 0.00007067 (1 of 2). Comparing 18 points to limit.

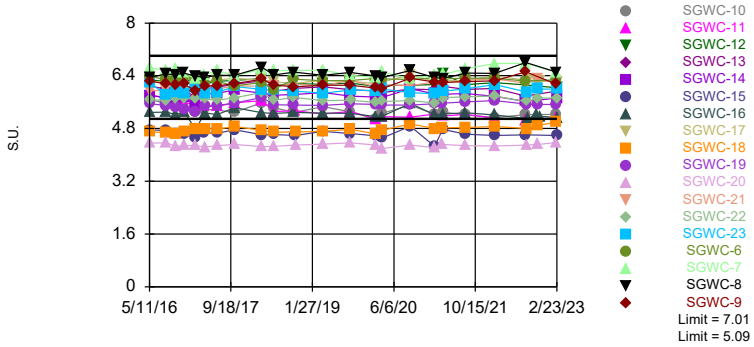
Constituent: Fluoride, total Analysis Run 5/8/2023 1:40 PM View: Appendix III
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Exceeds Limits: SGWC-15, SGWC-18, SGWC-20

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 161 background values. Annual per-constituent alpha = 0.005422. Individual comparison alpha = 0.0001508 (1 of 2). Comparing 18 points to limit.

Constituent: pH Analysis Run 5/8/2023 1:40 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

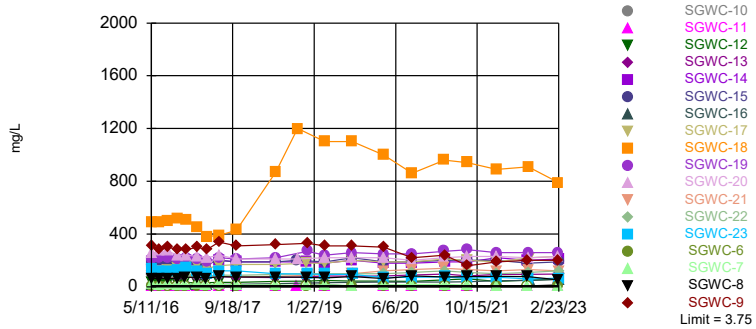
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-10, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 140 background values. 47.86% NDs. Annual per-constituent alpha = 0.00356. Individual comparison alpha = 0.00009905 (1 of 2). Comparing 18 points to limit.

Constituent: Sulfate, total Analysis Run 5/8/2023 1:40 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

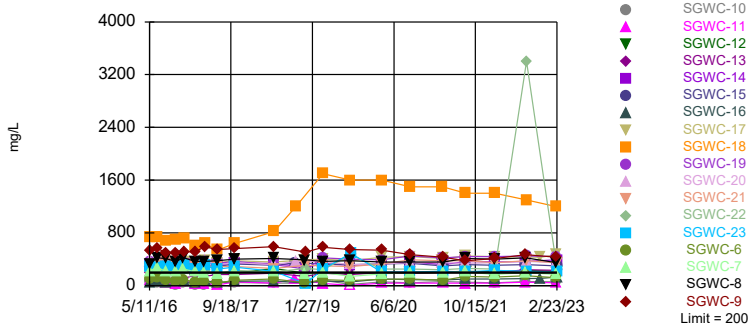
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 140 background values. 0.7143% NDs. Annual per-constituent alpha = 0.00356. Individual comparison alpha = 0.00009905 (1 of 2). Comparing 18 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:40 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
5/10/2016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
5/11/2016							1.54	0.0678 (J)	<0.08
5/12/2016									
5/13/2016									
6/23/2016	<0.08	<0.08		<0.08	<0.08				
6/24/2016						0.0109 (J)			
6/27/2016			0.0052 (J)					0.0767 (J)	
6/28/2016									0.0054 (J)
6/29/2016							1.52		
6/30/2016									
8/16/2016	<0.08	<0.08		<0.08	<0.08	<0.08			
8/17/2016			<0.08					0.067	
8/18/2016									<0.08
8/19/2016									
8/22/2016							1.6		
10/13/2016	<0.08				<0.08				
10/14/2016		<0.08	<0.08	<0.08		<0.08			
10/17/2016								0.059	<0.08
10/18/2016							2.4		
10/19/2016									
12/5/2016					<0.08				
12/6/2016	<0.08	<0.08	<0.08	<0.08		<0.08		0.054	<0.08
12/7/2016							1.6		
12/8/2016									
2/14/2017	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		0.063	
2/15/2017									<0.08
2/16/2017							1.6		
4/10/2017					<0.08				
4/11/2017	<0.08	<0.08	<0.08	<0.08		<0.08			
4/12/2017								0.068	<0.08
4/13/2017							1.7		
6/26/2017	<0.08	<0.08		<0.08	<0.08	<0.08			
6/27/2017			<0.08				1.8	0.067	<0.08
6/28/2017									
10/10/2017	<0.08			<0.08	<0.08				
10/11/2017		<0.08	<0.08			<0.08			<0.08
10/12/2017							1.8	0.075	
6/5/2018	<0.08	<0.08	<0.08	<0.08	<0.08				
6/6/2018						<0.08	1.8	0.059	<0.08
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
12/14/2018								0.064	<0.08
12/17/2018							1.6		
3/28/2019		<0.08	<0.08			<0.08			
3/29/2019	<0.08			<0.08	<0.08				
4/1/2019							1.7	0.076	<0.08
4/2/2019									
9/12/2019		<0.08							
9/13/2019					<0.08				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
9/16/2019	0.13		<0.08	0.089		0.05	1.6		<0.08
9/17/2019								0.11	
9/18/2019									
3/17/2020		<0.08	<0.08	<0.08		<0.08			
3/18/2020	<0.08				<0.08				
3/23/2020									
3/24/2020									
3/25/2020							1.6	0.089	
3/26/2020									<0.08
3/27/2020									
9/14/2020	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	1.7	0.1	<0.08
9/15/2020									
3/30/2021	0.041 (J)			0.045 (J)	0.072 (J)				
3/31/2021		<0.08				<0.08	1.5		
4/1/2021								0.14	
4/6/2021									
4/7/2021			<0.08						<0.08
8/17/2021	<0.08		<0.08	<0.08					
8/18/2021		<0.08			<0.08	<0.08		0.14	
8/19/2021							1.5		
8/20/2021									0.043 (J)
2/9/2022	<0.08	<0.08	<0.08	<0.08		<0.08			
2/10/2022					<0.08		1.3	0.16	<0.08
2/11/2022									
2/14/2022									
8/17/2022	<0.08			<0.08					
8/18/2022		<0.08	<0.08		<0.08	0.072 (J)	1.4	0.14	0.061 (J)
8/19/2022									
8/22/2022									
8/23/2022									
8/31/2022									
2/21/2023	<0.08	<0.08				<0.08			
2/22/2023				<0.08			1.6	0.11	
2/23/2023			0.1		0.18				0.079 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
5/10/2016									
5/11/2016	0.0359 (J)	0.0275 (J)	0.242	<0.08	<0.08				
5/12/2016						0.691	0.195	1.38	0.411
5/13/2016									
6/23/2016									
6/24/2016					0.0067 (J)				
6/27/2016	0.0354 (J)			0.0051 (J)					
6/28/2016		0.035 (J)	0.245					1.29	
6/29/2016						0.557	0.198 (J)		0.373 (J)
6/30/2016									
8/16/2016									
8/17/2016	0.039 (J)	0.028 (J)	0.26	<0.08	<0.08				
8/18/2016							0.24	1.3	
8/19/2016						0.58			0.37
8/22/2016									
10/13/2016									
10/14/2016									
10/17/2016		0.032 (J)	0.25	<0.08	<0.08			1.6	
10/18/2016	0.039 (J)					0.68			0.41
10/19/2016							0.37		
12/5/2016									
12/6/2016	0.03 (J)	<0.08	0.27	<0.08	<0.08				
12/7/2016						0.6	0.4	1.5	0.36
12/8/2016									
2/14/2017	0.031 (J)			<0.08	<0.08				
2/15/2017		0.035 (J)	0.28			0.82	0.38	1.5	
2/16/2017									0.38 (J)
4/10/2017									
4/11/2017					<0.08				
4/12/2017	0.039 (J)	0.052	0.29	<0.08				1.4	
4/13/2017						0.54	0.34		0.4
6/26/2017					<0.08				
6/27/2017	0.028 (J)	<0.08	0.29	<0.08			0.33	1.6	
6/28/2017						0.59			0.35
10/10/2017									
10/11/2017	0.026 (J)		0.31	<0.08	<0.08			1.5	
10/12/2017		0.049 (J)				0.54	0.47		0.4
6/5/2018									
6/6/2018	<0.08	0.07	0.37	<0.08	<0.08				
6/7/2018						0.71	0.35	1.6	0.41
6/8/2018									
10/16/2018			0.35						
10/18/2018									
12/13/2018					<0.08				
12/14/2018	<0.08			<0.08			0.44	1.4	
12/17/2018		0.098				0.6			0.4
3/28/2019					<0.08				
3/29/2019									
4/1/2019	0.025 (J)	0.16	0.46					1.7	
4/2/2019				<0.08		0.52	0.32		0.44
9/12/2019									
9/13/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
9/16/2019			0.39	0.04 (J)	<0.08				
9/17/2019	<0.08	0.077					0.43	1.4	
9/18/2019						0.54			0.52
3/17/2020									
3/18/2020					<0.08				
3/23/2020									
3/24/2020						0.55	0.37		0.34
3/25/2020		0.12	0.45	<0.08					
3/26/2020	0.055 (J)								
3/27/2020								1.5	
9/14/2020	<0.08	0.082	0.43	<0.08	<0.08				
9/15/2020						0.38	0.38	1.5	0.5
3/30/2021									
3/31/2021		0.15			<0.08	0.51			0.47
4/1/2021	0.069 (J)			<0.08			0.31		
4/6/2021								1.6	
4/7/2021			0.68						
8/17/2021					<0.08				
8/18/2021	0.047 (J)			<0.08		0.42	0.32		0.44
8/19/2021		0.091	0.54					1.7	
8/20/2021									
2/9/2022	<0.08			<0.08	<0.08				
2/10/2022			0.53			0.45			0.54
2/11/2022		0.09					0.27		
2/14/2022								1.5	
8/17/2022									
8/18/2022	0.1		0.57		<0.08				
8/19/2022		0.083		<0.08				1.4	
8/22/2022						0.46			0.57
8/23/2022									
8/31/2022							0.31		
2/21/2023									
2/22/2023	0.064 (J)	0.28	0.75	<0.08	<0.08		0.34		
2/23/2023						0.81		1.7	0.63

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	1.4	0.562	1.57	1.99	0.599		
5/13/2016						1.87	3.71
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		0.546	1.36		0.52		
6/29/2016	1.25			1.88		1.67	
6/30/2016							3.8
8/16/2016							
8/17/2016							
8/18/2016		0.54	1.5		0.51		
8/19/2016							
8/22/2016	1.3			2		1.7	3.3
10/13/2016							
10/14/2016							
10/17/2016					0.58		
10/18/2016	1.7	0.55	1.9	2.5		2.1	
10/19/2016							4.5
12/5/2016							
12/6/2016					0.5		
12/7/2016	1.3	0.56	1.5				4.8
12/8/2016				1.9		1.7	
2/14/2017							
2/15/2017			1.5		0.5		
2/16/2017	1.4	0.58		2.3		2.3	3.9
4/10/2017							
4/11/2017							
4/12/2017			1.7		0.47		
4/13/2017	1.4	0.56		2		1.9	3.8
6/26/2017							
6/27/2017		0.56	1.7		0.51		
6/28/2017	1.4			2.3		1.9	3.6
10/10/2017							
10/11/2017					0.49		
10/12/2017	1.4	0.57	1.6	2.6		1.9	3.9
6/5/2018							
6/6/2018							
6/7/2018	1.4	0.59	1.7	2.1	0.45		
6/8/2018						1.8	4.3
10/16/2018			1.5				
10/18/2018				2.3			4.9
12/13/2018							
12/14/2018					0.47		
12/17/2018	1.2	0.55				1.8	
3/28/2019							
3/29/2019							
4/1/2019			1.6		0.57		
4/2/2019	1.2	0.53		2		2	5.3
9/12/2019							
9/13/2019							

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
9/16/2019							
9/17/2019	1.1	0.55	1.4	1.8	0.43	1.8	5
9/18/2019							
3/17/2020							
3/18/2020							
3/23/2020	0.83			1.9		1.7	
3/24/2020							
3/25/2020							
3/26/2020							6
3/27/2020		0.59	1.4		0.49		
9/14/2020					0.49		
9/15/2020	1.2	0.57	1.4	1.8		1.9	6.2
3/30/2021	1.1			1.6		1.9	6.4
3/31/2021			1.4				
4/1/2021		0.55					
4/6/2021							
4/7/2021					0.59		
8/17/2021							
8/18/2021	1.1						6.6
8/19/2021		0.72	1.6	1.9	0.59	2.1	
8/20/2021							
2/9/2022							
2/10/2022		0.63					6.4
2/11/2022	1		1.2	1.5	0.48	1.7	
2/14/2022							
8/17/2022							
8/18/2022					0.55		
8/19/2022			1.3				
8/22/2022	1.2			1.6		1.7	
8/23/2022							6.8
8/31/2022		0.67					
2/21/2023							
2/22/2023				1.7		2	8.1
2/23/2023	1.3	0.87	2.2		0.69		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
5/10/2016	3	2.64	11.4	10.1	12.3	6.22			
5/11/2016							53.1	47.6	23.1
5/12/2016									
5/13/2016									
6/23/2016	2.42	1.65		8.45	11.3				
6/24/2016						5.55			
6/27/2016			9.16					47	
6/28/2016									21
6/29/2016							52.6		
6/30/2016									
8/16/2016	2.1	1.3		9.4	11	5			
8/17/2016			9.6					45	
8/18/2016									20
8/19/2016									
8/22/2016							57		
10/13/2016	2.7				12				
10/14/2016		1.4	11	10		5.4			
10/17/2016								47	21
10/18/2016							53		
10/19/2016									
12/5/2016					12				
12/6/2016	2.1	1.4	11	10		4.8		45	21
12/7/2016							47		
12/8/2016									
2/14/2017	1.8	1.4	12	11	13	4.6		49	
2/15/2017									23
2/16/2017							55		
4/10/2017					12				
4/11/2017	1.8	1.4	11	10		5			
4/12/2017								50	23
4/13/2017							56		
6/26/2017	1.7	1.5		10	13	4.9			
6/27/2017			9.5				53	50	22
6/28/2017									
10/10/2017	2.3			11	14				
10/11/2017		1.6	11			5.5			23
10/12/2017							55	51	
6/5/2018	2.6	1.5	9.7	11	13				
6/6/2018						4.1	54	51	22
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	1.7	1.4	9.4	10	12	4.3			
12/14/2018								46	21
12/17/2018							55		
3/28/2019		1.4	8.7			4.8			
3/29/2019	2			11	12				
4/1/2019							50	45	20
4/2/2019									
9/12/2019		1.6							
9/13/2019					14				

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
9/16/2019	1.7		9.5	12		5.9	56		23
9/17/2019								52	
9/18/2019									
3/17/2020		1.7	8.8	11		5.3			
3/18/2020	1.8				14				
3/23/2020									
3/24/2020									
3/25/2020							55	48	
3/26/2020									22
3/27/2020									
9/14/2020	1.6	1.6	9.1	11	14	5.7	45	49	22
9/15/2020									
3/30/2021	2.2			12	15				
3/31/2021		1.6				5.5	47		
4/1/2021								52	
4/6/2021									
4/7/2021			9.5						23
8/17/2021	1.8		9.6	12					
8/18/2021		1.7			14	5.9		49	
8/19/2021							34		
8/20/2021									23
2/9/2022	1.8	1.8	9.3	11		6			
2/10/2022					15		37	53	23
2/11/2022									
2/14/2022									
8/17/2022	1.9			11					
8/18/2022		1.7	9.1		16	5.9	44	50	22
8/19/2022									
8/22/2022									
8/23/2022									
8/31/2022									
2/21/2023	2.2	1.8				6.4			
2/22/2023				11			36	41	
2/23/2023			9.6		17				21

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
5/10/2016									
5/11/2016	27.2	4.14	2.91	8.7	14.4				
5/12/2016						27.6	34.8	37.7	21.9
5/13/2016									
6/23/2016									
6/24/2016					14.2				
6/27/2016	27.9			7.48					
6/28/2016		3.13	2.19					35.8	
6/29/2016						25.6	33.1		21.8
6/30/2016									
8/16/2016									
8/17/2016	23	4.1	1.9	8	15				
8/18/2016							35	37	
8/19/2016						29			22
8/22/2016									
10/13/2016									
10/14/2016									
10/17/2016		4.2	2	8.6	16			37	
10/18/2016	24					32			23
10/19/2016							38.5 (D)		
12/5/2016									
12/6/2016	23	4.3	1.9	8.2	15				
12/7/2016						30	39	38	23
12/8/2016									
2/14/2017	24			7.2	17				
2/15/2017		1.5	1.9			32	44	45	
2/16/2017									27
4/10/2017									
4/11/2017					17				
4/12/2017	25	2.2	1.9	6.7				39	
4/13/2017						31	45		27
6/26/2017					18				
6/27/2017	23	3.1	1.9	6.2			42	38	
6/28/2017						27			25
10/10/2017									
10/11/2017	22		2	6.5	19			44	
10/12/2017		1.2				31	48		27
6/5/2018									
6/6/2018	19	1.2	1.8	4.2	18				
6/7/2018						25	49	44	26
6/8/2018									
10/16/2018			1.8						
10/18/2018									
12/13/2018					18				
12/14/2018	16			6.5			46	37	
12/17/2018		4				24			28
3/28/2019					17				
3/29/2019									
4/1/2019	18	4.2	1.7					39	
4/2/2019				6.7		23	46		26
9/12/2019									
9/13/2019									

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
9/16/2019			1.9	8.9	18				
9/17/2019	16	0.79					51	38	
9/18/2019						26			27
3/17/2020									
3/18/2020					18				
3/23/2020									
3/24/2020						22	58		31
3/25/2020		2.9	2	11					
3/26/2020	21								
3/27/2020								41	
9/14/2020	20	0.75	1.8	10	17				
9/15/2020						21	54	40	28
3/30/2021									
3/31/2021		2.3			17	24			30
4/1/2021	22			11			57		
4/6/2021								42	
4/7/2021			1.9						
8/17/2021					18				
8/18/2021	22			11		21	55		30
8/19/2021		0.67	1.9					40	
8/20/2021									
2/9/2022	16			11	18				
2/10/2022			1.9			23			27
2/11/2022		0.55					58		
2/14/2022								41	
8/17/2022									
8/18/2022	15		1.8		20				
8/19/2022		0.78		12				39	
8/22/2022						22			28
8/23/2022									
8/31/2022							58		
2/21/2023									
2/22/2023	15	2.2	1.7	10	20		56		
2/23/2023						22		37	34

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	28.7	0.75	14.5	13.2	16.6		
5/13/2016						35.3	56.9
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		0.768	14.7		14.4		
6/29/2016	27.9			15.8		34.6	
6/30/2016							46.4
8/16/2016							
8/17/2016							
8/18/2016		0.7	15		15		
8/19/2016							
8/22/2016	30			15		38	48
10/13/2016							
10/14/2016							
10/17/2016					15		
10/18/2016	30	0.75	16	14		36	
10/19/2016							51
12/5/2016							
12/6/2016					14		
12/7/2016	29	0.73	15				50
12/8/2016				11		36	
2/14/2017							
2/15/2017			17		17		
2/16/2017	31	0.81		14		41	51
4/10/2017							
4/11/2017							
4/12/2017			14		16		
4/13/2017	32	0.88		17		39	35
6/26/2017							
6/27/2017		0.76	16		15		
6/28/2017	29			15		36	36
10/10/2017							
10/11/2017					16		
10/12/2017	31	1.1	17	17		39	43
6/5/2018							
6/6/2018							
6/7/2018	29	0.84	16	11	15		
6/8/2018						37	90
10/16/2018			16				
10/18/2018				12			100
12/13/2018							
12/14/2018					16		
12/17/2018	29	0.94				42	
3/28/2019							
3/29/2019							
4/1/2019			16		17		
4/2/2019	27	0.92		14		38	89
9/12/2019							
9/13/2019							

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
9/16/2019							
9/17/2019	30	1	17	14	17	44	87
9/18/2019							
3/17/2020							
3/18/2020							
3/23/2020	36			13		46	
3/24/2020							
3/25/2020							
3/26/2020							81
3/27/2020		1.5	17		18		
9/14/2020					19		
9/15/2020	38	1.1	17	14		47	74
3/30/2021	41			14		50	68
3/31/2021			17				
4/1/2021		1.2					
4/6/2021							
4/7/2021					19		
8/17/2021							
8/18/2021	39						55
8/19/2021		1.1	17	12	20	45	
8/20/2021							
2/9/2022							
2/10/2022		1.2					55
2/11/2022	36		16	13	19	46	
2/14/2022							
8/17/2022							
8/18/2022					21		
8/19/2022			17				
8/22/2022	36			13		42	
8/23/2022							52
8/31/2022		1.2					
2/21/2023							
2/22/2023				14		38	41
2/23/2023	34	1.3	14		20		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
5/10/2016	1.9	1.98	2.77	1.51	1.94	3.45			
5/11/2016							9.29	12.6	9.04
5/12/2016									
5/13/2016									
6/23/2016	2.2	2.1		1.8	2.2				
6/24/2016						3.5			
6/27/2016			2.9					13	
6/28/2016									8.8
6/29/2016							9		
6/30/2016									
8/16/2016	2.1	1.8		1.5	2	3.4			
8/17/2016			2.4					14	
8/18/2016									9.3
8/19/2016									
8/22/2016							9.7		
10/13/2016	2				1.9				
10/14/2016		1.8	2.1	1.4		3.1			
10/17/2016								12	8.3
10/18/2016							9.4		
10/19/2016									
12/5/2016					1.9				
12/6/2016	2.2	1.8	1.7	1.5		3		12	8.9
12/7/2016							11		
12/8/2016									
2/14/2017	2	1.8	1.5	1.5	1.9	2.4		12	
2/15/2017									8.7
2/16/2017							9.5		
4/10/2017					1.8				
4/11/2017	1.8	1.7	1.7	1.3		2.5			
4/12/2017								11	8.6
4/13/2017							8.7		
6/26/2017	1.9	1.7		1.4	1.9	2.6			
6/27/2017			2.2				9.9	12	9.3
6/28/2017									
10/10/2017	1.8			1.3	1.8				
10/11/2017		1.6	1.7			2.4			8.8
10/12/2017							11	11	
6/5/2018	1.7	1.6	2	1.3	1.9				
6/6/2018						2	12	11	8.8
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	1.7	1.7	1.9	1.3	2	2			
12/14/2018								11	9.1
12/17/2018							13		
3/28/2019		1.7	2.2			2			
3/29/2019	1.5			1.2	1.8				
4/1/2019							13	10	9
4/2/2019									
9/12/2019		1.5							
9/13/2019					1.7				

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
9/16/2019	1.8		1.9	1.3		2.2	14		9.3
9/17/2019								12	
9/18/2019									
3/17/2020		1.9	2.4	1.6		2.1			
3/18/2020	2				2.4				
3/23/2020									
3/24/2020									
3/25/2020							15	10	
3/26/2020									9.4
3/27/2020									
9/14/2020	2.1	1.9	2.7	1.5	2.5	2.5	19	14	10
9/15/2020									
3/30/2021	2.3			1.6	2.5				
3/31/2021		2.1				2.3	16		
4/1/2021								12	
4/6/2021									
4/7/2021			2.3						9
8/17/2021	1.9		2.6	1.6					
8/18/2021		2.2			2.7	2.4		14	
8/19/2021							18		
8/20/2021									9.9
2/9/2022	2	1.9	1.8	1.5		2.3			
2/10/2022					2.4		15	12	10
2/11/2022									
2/14/2022									
8/17/2022	2			1.5					
8/18/2022		2.1	1.9		3.1	2.4	17	13	9.5
8/19/2022									
8/22/2022									
8/23/2022									
8/31/2022									
2/21/2023	2	2				2.3			
2/22/2023				1.5			18	18	
2/23/2023			1.9		3.3				9.6

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
5/10/2016									
5/11/2016	9.65	9.53	8.87	2.44	1.93				
5/12/2016						9.63	9.11	11.1	10.6
5/13/2016									
6/23/2016									
6/24/2016					1.8				
6/27/2016	6.7			2.5					
6/28/2016		9.1	8.3					10	
6/29/2016						8.8	8.3		9.7
6/30/2016									
8/16/2016									
8/17/2016	6.4	9.4	8.6	2.4	1.4				
8/18/2016							8.8	11	
8/19/2016						9.6			11
8/22/2016									
10/13/2016									
10/14/2016									
10/17/2016		8.9	7.9	2.3	1.2			11	
10/18/2016	5.9					9.6			10
10/19/2016							8.3		
12/5/2016									
12/6/2016	5.9	8.9	7.9	2.3	1.3				
12/7/2016						9.7	8.4	11	10
12/8/2016									
2/14/2017	5.8			1.9	1.3				
2/15/2017		9	7.2			10	8.1	11	
2/16/2017									9.8
4/10/2017									
4/11/2017					1.2				
4/12/2017	5.6	8.5	7.5	1.6				10	
4/13/2017						9	7.9		9.6
6/26/2017					1.2				
6/27/2017	5.7	9.1	7.8	1.6			8.3	11	
6/28/2017						9.6			10
10/10/2017									
10/11/2017	5		7.4	1.6	1.1			10	
10/12/2017		8.5				9.3	8		9.7
6/5/2018									
6/6/2018	4.6	8.6	7.5	1.3	1.1				
6/7/2018						10	8	10	10
6/8/2018									
10/16/2018			7.8						
10/18/2018									
12/13/2018					1.2				
12/14/2018	4.2			1.8			8.1	10	
12/17/2018		8.6				9.9			10
3/28/2019					1.2				
3/29/2019									
4/1/2019	4.6	7.8	7.4					9.9	
4/2/2019				2		8.9	8.2		10
9/12/2019									
9/13/2019									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
9/16/2019			7.9	1.9	1.2				
9/17/2019	3.8	9.7					8.3	11	
9/18/2019						9.7			10
3/17/2020									
3/18/2020					1.5				
3/23/2020									
3/24/2020						9.1	7.8		10
3/25/2020		8.8	9	2.3					
3/26/2020	5.1								
3/27/2020								11	
9/14/2020	5.8	10	8.9	2.8	1.5				
9/15/2020						10	8.4	11	11
3/30/2021									
3/31/2021		9.2			1.6	11			11
4/1/2021	6			2.4			9.2		
4/6/2021								11	
4/7/2021			8.8						
8/17/2021					1.6				
8/18/2021	5			2.5		11	8.9		11
8/19/2021		9.3	9.9					11	
8/20/2021									
2/9/2022	4			2.6	1.5				
2/10/2022			8.8			12			10
2/11/2022		11					8.4		
2/14/2022								14	
8/17/2022									
8/18/2022	3.5		9.9		1.6				
8/19/2022		9.2		2.6				13	
8/22/2022						12			11
8/23/2022									
8/31/2022							8		
2/21/2023									
2/22/2023	3.6	9	9.9	2.3	1.6		8.1		
2/23/2023						12		12	11

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	7.93	8.56	9.47	10.8	6.29		
5/13/2016						8.16	4.87
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		7.8	9.8		5.4		
6/29/2016	7.7			11		7.6	
6/30/2016							4.7
8/16/2016							
8/17/2016							
8/18/2016		8.5	10		5.8		
8/19/2016							
8/22/2016	7.9			11		8.2	5
10/13/2016							
10/14/2016							
10/17/2016					5.4		
10/18/2016	7.1	8	9.4	10		7.7	
10/19/2016							5.1
12/5/2016							
12/6/2016					5.6		
12/7/2016	7.7	8	9.8				5.6
12/8/2016				9.7		7.8	
2/14/2017							
2/15/2017			9.8		5.4		
2/16/2017	7.4	7.7		9.8		7.4	7.4
4/10/2017							
4/11/2017							
4/12/2017			9.2		5.6		
4/13/2017	7.4	7.5		10		7.5	8.9
6/26/2017							
6/27/2017		8	9.5		5.9		
6/28/2017	8.1			12		7.9	10
10/10/2017							
10/11/2017					5.7		
10/12/2017	8.1	7.6	9.2	11		7.4	7.4
6/5/2018							
6/6/2018							
6/7/2018	8.6	7.7	9.3	9.9	6.2		
6/8/2018						7.2	9
10/16/2018			10				
10/18/2018				11			16
12/13/2018							
12/14/2018					7.5		
12/17/2018	9.3	8.1				7.3	
3/28/2019							
3/29/2019							
4/1/2019			9.2		7.7		
4/2/2019	9.3	8.2		11		7.3	15
9/12/2019							
9/13/2019							

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
9/16/2019							
9/17/2019	10	8.4	10	11	8.4	7.4	13
9/18/2019							
3/17/2020							
3/18/2020							
3/23/2020	11			10		7.7	
3/24/2020							
3/25/2020							
3/26/2020							12
3/27/2020		8.5	10		9		
9/14/2020					11		
9/15/2020	12	8.6	10	11		7.7	11
3/30/2021	13			9.9		8.3	11
3/31/2021			11				
4/1/2021		9.2					
4/6/2021							
4/7/2021					10		
8/17/2021							
8/18/2021	13						15
8/19/2021		9.5	11	10	12	9.4	
8/20/2021							
2/9/2022							
2/10/2022		9.8					19
2/11/2022	11		12	9.6	12	10	
2/14/2022							
8/17/2022							
8/18/2022					12		
8/19/2022			11				
8/22/2022	10			9.4		9.6	
8/23/2022							16
8/31/2022		9.6					
2/21/2023							
2/22/2023				8.8		10	13
2/23/2023	8.9	9.8	11		11		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-3 (bg)	SGWA-24 (bg)	SGWA-2 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWC-12	SGWA-4 (bg)	SGWC-10
5/10/2016	<0.1	0.0192 (J)	0.0648 (J)	0.0537 (J)	0.0188 (J)	0.041 (J)			
5/11/2016							0.11 (J)	0.108 (J)	0.019 (J)
5/12/2016									
5/13/2016									
6/23/2016	<0.1		0.05 (J)	0.03 (J)	<0.1				
6/24/2016		0.02 (J)						0.08 (J)	
6/27/2016						0.03 (J)			
6/28/2016							0.18 (J)		<0.1
6/29/2016									
6/30/2016									
8/16/2016	<0.1	<0.1	<0.1	<0.1	<0.1				
8/17/2016						<0.1		<0.1	<0.1
8/18/2016							0.12 (J)		
8/19/2016									
8/22/2016									
10/13/2016	<0.1		<0.1						
10/14/2016		<0.1		<0.1	<0.1	<0.1			
10/17/2016							0.082 (J)	<0.1	<0.1
10/18/2016									
10/19/2016									
12/5/2016			<0.1						
12/6/2016	<0.1	<0.1		<0.1	<0.1	<0.1	0.11 (J)	0.091 (J)	<0.1
12/7/2016									
12/8/2016									
2/14/2017	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		0.1 (J)	
2/15/2017							0.13 (J)		<0.1
2/16/2017									
4/10/2017			<0.1						
4/11/2017	<0.1	<0.1		<0.1	<0.1	<0.1		<0.1	
4/12/2017							0.088 (J)		<0.1
4/13/2017									
6/26/2017	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	
6/27/2017						<0.1	0.1 (J)		<0.1
6/28/2017									
10/10/2017	<0.1		<0.1	<0.1					
10/11/2017		<0.1			<0.1	<0.1	<0.1	<0.1	
10/12/2017									<0.1
3/26/2018	<0.1	<0.1	<0.1	<0.1					
3/27/2018					<0.1	<0.1	<0.1	<0.1	<0.1
3/28/2018									
6/5/2018	<0.1		<0.1	<0.1	<0.1	<0.1			
6/6/2018		<0.1					<0.1	<0.1	<0.1
6/7/2018									
6/8/2018									
10/5/2018	<0.1	<0.1	<0.1	<0.1					
10/8/2018					<0.1	<0.1	<0.1	<0.1	
10/9/2018									<0.1
10/16/2018									
10/18/2018									
2/18/2019	<0.1			0.05 (J)				0.066 (J)	
2/19/2019		<0.1	0.06 (J)		<0.1	0.044 (J)			
2/20/2019							0.052 (J)		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-3 (bg)	SGWA-24 (bg)	SGWA-2 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWC-12	SGWA-4 (bg)	SGWC-10
3/28/2019		0.026 (J)			<0.1	0.037 (J)		0.052 (J)	
3/29/2019	<0.1		0.056 (J)	0.053 (J)					
4/1/2019							0.048 (J)		<0.1
4/2/2019									
9/12/2019					<0.1				
9/13/2019			0.049 (J)						
9/16/2019	<0.1	0.026 (J)		0.054 (J)		0.04 (J)	0.065 (J)	0.055 (J)	
9/17/2019									<0.1
9/18/2019									
2/13/2020	<0.1		0.066 (J)	0.051 (J)					
2/17/2020					<0.1	0.041 (J)			
2/18/2020		<0.1						0.068 (J)	
2/19/2020							0.064 (J)		<0.1
2/20/2020									
3/17/2020		0.029 (J)		0.038 (J)	0.03 (J)	0.041 (J)			
3/18/2020	<0.1		0.078 (J)					<0.1	
3/23/2020									
3/24/2020									
3/25/2020									0.031 (J)
3/26/2020							0.081 (J)		
3/27/2020									
9/14/2020	<0.1	<0.1	0.038 (J)	0.033 (J)	<0.1	0.028 (J)	0.042 (J)	0.035 (J)	<0.1
9/15/2020									
2/9/2021	<0.1	<0.1	0.059 (J)	0.055 (J)	<0.1	0.037 (J)	0.074 (J)	0.059 (J)	<0.1
2/10/2021									
3/30/2021	<0.1		0.052 (J)	0.048 (J)					
3/31/2021		<0.1			<0.1			0.051 (J)	0.047 (J)
4/1/2021									
4/6/2021									
4/7/2021						0.054 (J)	0.066 (J)		
8/17/2021	0.052 (J)			0.096 (J)		0.079 (J)		0.093 (J)	
8/18/2021		0.066 (J)	0.16		0.07 (J)				
8/19/2021									<0.1
8/20/2021							0.082 (J)		
2/9/2022	0.034 (J)	0.049 (J)		0.11	0.044 (J)	0.069 (J)		0.083 (J)	
2/10/2022			0.061 (J)				0.06 (J)		
2/11/2022									0.03 (J)
2/14/2022									
8/17/2022	0.088 (J)			0.076 (J)					
8/18/2022		0.034 (J)	0.051 (J)		0.036 (J)	0.044 (J)	0.052 (J)	0.056 (J)	
8/19/2022									<0.1
8/22/2022									
8/23/2022									
8/31/2022									
2/21/2023	0.048 (J)	0.041 (J)			0.039 (J)				
2/22/2023				0.07 (J)				0.6 (o)	0.045 (J)
2/23/2023			0.074 (J)			0.075 (J)	0.089 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-11	SGWC-7	SGWC-8	SGWC-6	SGWC-9	SGWC-22	SGWC-15	SGWC-14	SGWC-16
5/10/2016									
5/11/2016	0.033 (J)	0.245 (J)	0.362	0.133 (J)	0.076 (J)				
5/12/2016						0.029 (J)	0.1071 (J)	0.031 (J)	0.011 (J)
5/13/2016									
6/23/2016									
6/24/2016									
6/27/2016		0.23 (J)	0.45	0.21 (J)					
6/28/2016	0.08 (J)						0.26 (J)	0.03 (J)	0.09 (J)
6/29/2016					0.13 (J)	0.04 (J)			
6/30/2016									
8/16/2016									
8/17/2016	<0.1	0.22	0.54	0.14 (J)					
8/18/2016							0.14 (J)	<0.1	<0.1
8/19/2016						<0.1			
8/22/2016					<0.1				
10/13/2016									
10/14/2016									
10/17/2016	<0.1		0.51	0.11 (J)				<0.1	
10/18/2016		0.24			<0.1	<0.1	0.12 (J)		<0.1
10/19/2016									
12/5/2016									
12/6/2016	<0.1	0.26	0.58	0.14 (J)					
12/7/2016					<0.1	<0.1	0.13 (J)	<0.1	<0.1
12/8/2016									
2/14/2017		0.17 (J)	0.39	0.2					
2/15/2017	<0.1						0.12 (J)	<0.1	
2/16/2017					0.097 (J)	0.1 (J)			<0.1
4/10/2017									
4/11/2017									
4/12/2017	<0.1	0.2	0.41	0.089 (J)			0.11 (J)	<0.1	
4/13/2017					<0.1	<0.1			<0.1
6/26/2017									
6/27/2017	<0.1	0.23	0.47	0.085 (J)	<0.1		0.13 (J)	<0.1	<0.1
6/28/2017						<0.1			
10/10/2017									
10/11/2017	<0.1	0.21		0.089 (J)				<0.1	
10/12/2017			0.47		<0.1	<0.1	0.13 (J)		<0.1
3/26/2018									
3/27/2018	<0.1	0.19 (J)	0.4	<0.1			0.12 (J)	<0.1	<0.1
3/28/2018					<0.1	<0.1			
6/5/2018									
6/6/2018	<0.1	0.2	0.4	<0.1	<0.1				
6/7/2018						<0.1	0.14 (J)	<0.1	<0.1
6/8/2018									
10/5/2018									
10/8/2018				<0.1		<0.1		<0.1	<0.1
10/9/2018		0.2	0.47		<0.1				
10/16/2018	<0.1						0.14 (J)		
10/18/2018									
2/18/2019									
2/19/2019						<0.1			
2/20/2019	<0.1	0.2	0.32	0.092 (J)	0.074 (J)		0.33	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-11	SGWC-7	SGWC-8	SGWC-6	SGWC-9	SGWC-22	SGWC-15	SGWC-14	SGWC-16
3/28/2019									
3/29/2019									
4/1/2019	<0.1	0.12 (J)	0.21		0.041 (J)		0.072 (J)	<0.1	
4/2/2019				0.1 (J)		<0.1			<0.1
9/12/2019									
9/13/2019									
9/16/2019	<0.1			0.099 (J)	0.057 (J)				
9/17/2019		0.2	0.47				0.1	0.028 (J)	<0.1
9/18/2019						0.028 (J)			
2/13/2020									
2/17/2020									
2/18/2020	<0.1	0.2	0.38	0.11		<0.1			
2/19/2020					0.061 (J)		0.13	0.026 (J)	<0.1
2/20/2020									
3/17/2020									
3/18/2020									
3/23/2020									
3/24/2020						<0.1			
3/25/2020	0.058 (J)		0.31	0.13	0.079 (J)				
3/26/2020		0.14							
3/27/2020							0.13	0.041 (J)	0.027 (J)
9/14/2020	<0.1	0.11	0.29	0.076 (J)	0.037 (J)				
9/15/2020						<0.1	0.15	0.04 (J)	0.037 (J)
2/9/2021	<0.1	0.22	0.37	0.12	0.05 (J)		0.14	<0.1	<0.1
2/10/2021						<0.1			
3/30/2021									
3/31/2021					0.073 (J)	<0.1	0.12		
4/1/2021		0.25	0.38	0.14					<0.1
4/6/2021								<0.1	
4/7/2021	<0.1								
8/17/2021									
8/18/2021		0.31	0.48	0.19		0.054 (J)			
8/19/2021	<0.1				0.078 (J)		0.12	<0.1	0.038 (J)
8/20/2021									
2/9/2022		0.27		0.19					
2/10/2022	<0.1		0.44		0.098 (J)	<0.1			<0.1
2/11/2022							0.14		
2/14/2022								0.035 (J)	
8/17/2022									
8/18/2022	0.034 (J)	0.14	0.54		0.51				
8/19/2022				0.12			0.11	<0.1	
8/22/2022						0.038 (J)			
8/23/2022									
8/31/2022									0.058 (J)
2/21/2023									
2/22/2023	0.063 (J)	0.16	0.52	0.11	0.076 (J)				
2/23/2023						0.075 (J)	0.11	0.068 (J)	0.045 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-13	SGWC-20	SGWC-21	SGWC-23	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	0.066 (J)	0.042 (J)	0.259 (J)	0.079 (J)	0.0341 (J)		
5/13/2016						0.0343 (J)	0.0126 (J)
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		0.15 (J)					
6/29/2016	0.17 (J)		0.45	0.15 (J)	0.04 (J)		0.18 (J)
6/30/2016						0.18 (J)	
8/16/2016							
8/17/2016							
8/18/2016	<0.1	<0.1					
8/19/2016					<0.1		
8/22/2016			0.33	0.083 (J)		<0.1	<0.1
10/13/2016							
10/14/2016							
10/17/2016		<0.1					
10/18/2016			0.26	<0.1	<0.1		<0.1
10/19/2016	<0.1					<0.1	
12/5/2016							
12/6/2016		<0.1					
12/7/2016	<0.1			<0.1	<0.1	<0.1	
12/8/2016			0.28				<0.1
2/14/2017							
2/15/2017	0.089 (J)	<0.1			0.092 (J)		
2/16/2017			0.28	0.12 (J)		<0.1	<0.1
4/10/2017							
4/11/2017							
4/12/2017		<0.1					
4/13/2017	<0.1		0.2	<0.1	<0.1	<0.1	<0.1
6/26/2017							
6/27/2017	<0.1	<0.1					
6/28/2017			0.22	0.1 (J)	<0.1	<0.1	<0.1
10/10/2017							
10/11/2017		<0.1					
10/12/2017	<0.1		0.18 (J)	<0.1	<0.1	<0.1	<0.1
3/26/2018							
3/27/2018	<0.1	<0.1			<0.1		
3/28/2018			0.19 (J)	<0.1		<0.1	<0.1
6/5/2018							
6/6/2018							
6/7/2018	<0.1	<0.1	0.21	<0.1	<0.1		
6/8/2018						<0.1	<0.1
10/5/2018							
10/8/2018	<0.1	<0.1		<0.1	<0.1		
10/9/2018							<0.1
10/16/2018							
10/18/2018			0.23			<0.1	
2/18/2019							
2/19/2019					0.055 (J)		
2/20/2019	0.034 (J)	<0.1	0.2	0.051 (J)		<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-13	SGWC-20	SGWC-21	SGWC-23	SGWC-18	SGWC-19
3/28/2019							
3/29/2019							
4/1/2019		<0.1					
4/2/2019	0.045 (J)		0.15 (J)	0.066 (J)	0.036 (J)	0.05 (J)	<0.1
9/12/2019							
9/13/2019							
9/16/2019							
9/17/2019	0.047 (J)	0.04 (J)	0.14	0.077 (J)		0.034 (J)	<0.1
9/18/2019					0.044 (J)		
2/13/2020							
2/17/2020							
2/18/2020			0.16	0.073 (J)	0.082 (J)		
2/19/2020	0.046 (J)	0.027 (J)					<0.1
2/20/2020						<0.1	
3/17/2020							
3/18/2020							
3/23/2020			0.25	0.11			0.057 (J)
3/24/2020	0.058 (J)				0.081 (J)		
3/25/2020							
3/26/2020						0.091 (J)	
3/27/2020		0.045 (J)					
9/14/2020		<0.1					
9/15/2020	0.052 (J)		0.15	0.061 (J)	0.052 (J)	<0.1	<0.1
2/9/2021		<0.1					
2/10/2021	0.03 (J)		0.19	0.049 (J)	0.046 (J)	<0.1	<0.1
3/30/2021			0.18	0.074 (J)		0.1 (J)	<0.1
3/31/2021					0.046 (J)		
4/1/2021	0.051 (J)						
4/6/2021							
4/7/2021		0.053 (J)					
8/17/2021							
8/18/2021	0.087 (J)			0.12	0.11	0.099 (J)	
8/19/2021		<0.1	0.17				<0.1
8/20/2021							
2/9/2022							
2/10/2022					0.066 (J)	0.039 (J)	
2/11/2022	0.064 (J)	0.045 (J)	0.14	0.092 (J)			<0.1
2/14/2022							
8/17/2022							
8/18/2022		0.038 (J)					
8/19/2022							
8/22/2022			0.22	0.09 (J)	0.052 (J)		0.041 (J)
8/23/2022						0.1 (J)	
8/31/2022	0.058 (J)						
2/21/2023							
2/22/2023	0.06 (J)		0.13			0.061 (J)	0.046 (J)
2/23/2023		0.077 (J)		0.087 (J)	0.089 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-12	SGWC-11	SGWC-9
5/10/2016	5.51	6.34	6.14	5.75	5.84	6.83			
5/11/2016							6.28	5.84	6.24
5/12/2016									
5/13/2016									
8/16/2016	5.42	6.35		5.72	5.64	6.73			
8/17/2016			6.1					5.71	
8/18/2016							6.23		
8/19/2016									
8/22/2016									6.15
10/13/2016	5.52	6.34							
10/14/2016			6.14	5.71	5.59	6.47			
10/17/2016							6.27	5.69	
10/18/2016									6.11
10/19/2016									
12/5/2016		6.32							
12/6/2016	5.33		6.19	5.68	5.46	6.74	6.28	5.58	
12/7/2016									6.14
12/8/2016									
2/14/2017	5.29	6.33	6.34	5.57	5.29	6.85			
2/15/2017							6.21	5.54	
2/16/2017									5.95
4/10/2017		6.31							
4/11/2017	5.21		6.16	5.7	5.54	6.75			
4/12/2017							6.15	5.47	
4/13/2017									6.09
6/26/2017	5.25	6.35		5.68	5.54	6.82			
6/27/2017			6.08				6.23	5.47	6.09
6/28/2017									
10/10/2017	5.49	6.37				6.87			
10/11/2017			6.16	5.63	5.43		6.26	5.58	
10/12/2017									6.16
3/26/2018	5.39	6.32		5.89		6.77			
3/27/2018			6.12		5.52		6.32	5.65	
3/28/2018									6.3
6/5/2018	5.38	6.27	6.06		5.59	6.73			
6/6/2018				5.62			6.1	5.32	6.12
6/7/2018									
6/8/2018									
10/5/2018	5.46	6.37		5.76	5.7	6.81			
10/8/2018			6.16				6.16		
10/9/2018									6.06
10/16/2018								5.34	
10/18/2018									
3/28/2019			6.15	5.88	5.67				
3/29/2019	5.22	6.31				6.81			
4/1/2019							6.14	5.24	6.11
4/2/2019									
9/12/2019					5.59				
9/13/2019		6.36							
9/16/2019	5.22		6.05	5.8		6.82	6.18	5.32	6.11
9/17/2019									
9/18/2019									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-12	SGWC-11	SGWC-9
2/13/2020	5.09	6.24				6.59			
2/17/2020			6.1		5.73				
2/18/2020				5.76				5.09	
2/19/2020							6.07		6.03
2/20/2020									
3/17/2020			6.02	5.87	5.62	6.83			
3/18/2020	5.37	6.4							
3/23/2020									
3/24/2020									
3/25/2020								5.16	6.01
3/26/2020							6.1		
3/27/2020									
5/19/2020	5.37	6.37	6.03	5.8	5.61	6.8			
9/14/2020	5.11	6.52	5.98	5.84	5.82	6.73	6.11	5.14	6.33
9/15/2020									
2/9/2021	5.25	6.4	6.06	5.8	5.53	6.75	6.13	5.24	6.21
2/10/2021									
3/30/2021	5.28	6.27				6.73			
3/31/2021				5.72	5.5				6.2
4/1/2021									
4/6/2021									
4/7/2021			6.12				6.44	5.18	
8/17/2021	5.26		6.08			6.84			
8/18/2021		6.45		5.85	5.51				
8/19/2021								5.23	6.22
8/20/2021							6.13		
2/9/2022	5.28		6.17	5.84	5.56	7.01			
2/10/2022		6.38					6.19	5.11	6.25
2/11/2022									
2/14/2022									
8/17/2022	5.16					6.79			
8/18/2022		6.32	6.03	5.64	5.43		6.12	5.06	6.52
8/19/2022									
8/22/2022									
8/23/2022									
8/31/2022									
10/25/2022									
10/31/2022									
11/16/2022									
2/21/2023	5.28			5.82	5.6				
2/22/2023						6.85		5.1	6.14
2/23/2023		6.33	6.04				6.04		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWA-4 (bg)	SGWC-7	SGWC-8	SGWC-10	SGWC-21	SGWC-22	SGWC-23	SGWC-20
5/10/2016									
5/11/2016	6.39	6.49	6.66	6.35	5.7				
5/12/2016						5.95	5.675 (D)	6.18	4.36
5/13/2016									
8/16/2016									
8/17/2016	6.28	6.42	6.55	6.45	5.55				
8/18/2016									
8/19/2016							5.65	5.84	
8/22/2016						5.96			4.37
10/13/2016									
10/14/2016									
10/17/2016	6.3	6.44		6.43	5.45				
10/18/2016			6.59			5.9	5.71	5.89	4.26
10/19/2016									
12/5/2016									
12/6/2016	6.3	6.48	6.51	6.48	5.49				
12/7/2016						6.03	5.71	5.87	
12/8/2016									4.28
2/14/2017	6.31	6.18	6.3	6.39					
2/15/2017					5.29			6.04	
2/16/2017						6.03	5.7		4.29
4/10/2017									
4/11/2017		6.49							
4/12/2017	6.23		6.43	6.35	5.39				
4/13/2017						5.93	5.7	5.85	4.24
6/26/2017		6.48							
6/27/2017	6.23		6.56	6.41					
6/28/2017						6	5.66	5.9	4.28
10/10/2017									
10/11/2017	6.09	6.42	6.4						
10/12/2017				6.41	5.3	6.09	5.73	6.07	4.32
3/26/2018									
3/27/2018	6.2	6.53	6.6	6.66	5.58			5.99	
3/28/2018						6.08	5.89		4.25
6/5/2018									
6/6/2018	5.99	6.7	6.56	6.42	5.43				
6/7/2018						6.1	5.66	5.97	4.26
6/8/2018									
10/5/2018									
10/8/2018	6.3	6.53				6.14	5.74	5.94	
10/9/2018			6.56	6.51	5.29				
10/16/2018									
10/18/2018									4.3
3/28/2019		6.53							
3/29/2019									
4/1/2019			6.57	6.41	5.46				
4/2/2019	6.25					6.09	5.65	5.87	4.33
9/12/2019									
9/13/2019									
9/16/2019	6.26	6.44							
9/17/2019			6.41	6.5	5.31	6.27			4.37
9/18/2019							5.66	5.97	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWA-4 (bg)	SGWC-7	SGWC-8	SGWC-10	SGWC-21	SGWC-22	SGWC-23	SGWC-20
2/13/2020									
2/17/2020									
2/18/2020	6.32	6.38	6.35	6.39		6.06	5.59	5.95	4.3
2/19/2020					5.07				
2/20/2020									
3/17/2020									
3/18/2020		6.36							
3/23/2020						6.12			4.19
3/24/2020							5.62	6	
3/25/2020	6.31			6.35	5.26				
3/26/2020			6.52						
3/27/2020									
5/19/2020		6.38							
9/14/2020	6.29	6.4	6.31	6.56	5.51				
9/15/2020						6.1	5.65	5.89	4.3
2/9/2021	6.34	6.38	6.42	6.35	5.23				
2/10/2021						6.21	5.58	5.85	4.22
3/30/2021						6.17			4.32
3/31/2021		6.33			5.3		5.73	5.93	
4/1/2021	6.31		6.44	6.32					
4/6/2021									
4/7/2021									
8/17/2021		6.41							
8/18/2021	6.33		6.61	6.48		6.26	5.76	6.01	
8/19/2021					5.21				4.28
8/20/2021									
2/9/2022	6.33	6.38	6.77						
2/10/2022				6.47			5.78	6.13	
2/11/2022					5.13	6.31			4.27
2/14/2022									
8/17/2022									
8/18/2022		6.35	6.77	6.8					
8/19/2022	6.24				5.22				
8/22/2022						6.17	5.62	5.91	4.3
8/23/2022									
8/31/2022									
10/25/2022									
10/31/2022						6.29	5.72	6	4.32
11/16/2022									
2/21/2023									
2/22/2023	6.28	6.36	6.51	6.51	5.23				4.38
2/23/2023						6.19	5.72	6	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-14	SGWC-15	SGWC-16	SGWC-13	SGWC-17	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	5.79	4.76	5.29	6.09	6.21		
5/13/2016						4.7	5.55
8/16/2016							
8/17/2016							
8/18/2016	5.75	4.73	5.3	6	6.24		
8/19/2016							
8/22/2016						4.68	5.5
10/13/2016							
10/14/2016							
10/17/2016	5.73			6.01			
10/18/2016		4.62	5.23				5.46
10/19/2016					6.2	4.65	
12/5/2016							
12/6/2016				5.98			
12/7/2016	5.75	4.63	5.31		6.19	4.69	
12/8/2016							5.39
2/14/2017							
2/15/2017	5.58	4.51		5.74	6.25		
2/16/2017			4.77			4.77	5.32
4/10/2017							
4/11/2017							
4/12/2017	5.85	4.67		6.01			
4/13/2017			5.28		6.21	4.79	5.47
6/26/2017							
6/27/2017	5.86	4.66	5.22	6.05	6.27		
6/28/2017						4.78	5.5
10/10/2017							
10/11/2017	5.98			6.14			
10/12/2017		4.76	5.43		6.33	4.86	5.57
3/26/2018							
3/27/2018	5.87	4.61	5.28	6.25	6.26		
3/28/2018						4.74	5.74
6/5/2018							
6/6/2018							
6/7/2018	5.81	4.62	5.26	5.93	6.21		
6/8/2018						4.69	5.52
10/5/2018							
10/8/2018	5.83		5.29	6.02	6.17		
10/9/2018							5.51
10/16/2018		4.59					
10/18/2018						4.7	
3/28/2019							
3/29/2019							
4/1/2019	5.89	4.72		6.06			
4/2/2019			5.27		6.26	4.72	5.5
9/12/2019							
9/13/2019							
9/16/2019							
9/17/2019	5.78	4.65	5.26	5.98	6.23	4.77	5.55
9/18/2019							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-14	SGWC-15	SGWC-16	SGWC-13	SGWC-17	SGWC-18	SGWC-19
2/13/2020							
2/17/2020							
2/18/2020							
2/19/2020	5.75	4.58	5.16	5.94	6.16		5.53
2/20/2020						4.64	
3/17/2020							
3/18/2020							
3/23/2020							5.51
3/24/2020					6.21		
3/25/2020							
3/26/2020						4.74	
3/27/2020	5.74	4.51	5.17	5.89			
5/19/2020							
9/14/2020				6			
9/15/2020	6.01	4.87	5.56		6.42	4.94	5.51
2/9/2021	5.85	4.26	5.22	5.98			
2/10/2021					6.23	4.8	5.55
3/30/2021						4.82	5.57
3/31/2021		4.77					
4/1/2021			5.24		6.25		
4/6/2021	5.84						
4/7/2021				6.07			
8/17/2021							
8/18/2021					6.26	4.83	
8/19/2021	5.86	4.63	5.28	5.99			5.61
8/20/2021							
2/9/2022							
2/10/2022			5.21			4.86	
2/11/2022		4.59		6.02	6.39		5.65
2/14/2022	5.77						
8/17/2022							
8/18/2022				5.78			
8/19/2022	5.62	4.61					
8/22/2022							5.54
8/23/2022						4.8	
8/31/2022			5.1		6.26		
10/25/2022			5.23		6.27		
10/31/2022						4.89	5.53
11/16/2022			5.17		6.23		
2/21/2023							
2/22/2023					6.23	5	5.53
2/23/2023	5.72	4.59	5.13	5.94			

Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
5/10/2016	0.6766 (J)	0.4716 (J)	0.686 (J)	0.4053 (J)	<1	2.82			
5/11/2016							313	61.6	30.1
5/12/2016									
5/13/2016									
6/23/2016	0.94 (J)	0.46 (J)		0.55 (J)	0.3 (J)				
6/24/2016						2.3			
6/27/2016			0.61 (J)					64	
6/28/2016									25
6/29/2016							280		
6/30/2016									
8/16/2016	1.2	<1		<1	<1	1.5			
8/17/2016			<1					63	
8/18/2016									24
8/19/2016									
8/22/2016							300		
10/13/2016	2.9				<1				
10/14/2016		<1	<1	<1		1.2			
10/17/2016								64	23
10/18/2016							280		
10/19/2016									
12/5/2016					<1				
12/6/2016	3.2	<1	<1	<1		1.3		72	28
12/7/2016							280		
12/8/2016									
2/14/2017	0.76 (J)	<1	<1	<1	<1	1.9		73	
2/15/2017									33
2/16/2017							300		
4/10/2017					<1				
4/11/2017	<1	<1	<1	<1		1.3			
4/12/2017								64	30
4/13/2017							280		
6/26/2017	0.74 (J)	<1		<1	<1	1.5			
6/27/2017			<1				340	77	33
6/28/2017									
10/10/2017	0.76 (J)			<1	<1				
10/11/2017		<1	<1			0.98 (J)			33
10/12/2017							310	74	
6/5/2018	<1	<1	<1	<1	<1				
6/6/2018						1.8	320	74	41
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	<1	<1	<1	<1	<1	1.4			
12/14/2018								72	43
12/17/2018							330		
3/28/2019		<1	<1			1.9			
3/29/2019	<1			0.65 (J)	<1				
4/1/2019							310	67	48
4/2/2019									
9/12/2019		<1							
9/13/2019					<1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
9/16/2019	0.98 (J)		<1	0.68 (J)		0.92 (J)	310		44
9/17/2019								77	
9/18/2019									
3/17/2020		0.55 (J)	0.61 (J)	0.78 (J)		1.6			
3/18/2020	1.2				0.45 (J)				
3/23/2020									
3/24/2020									
3/25/2020							300	62	
3/26/2020									44
3/27/2020									
9/14/2020	0.58 (J)	<1	<1	<1	<1	0.82 (J)	220	81	41
9/15/2020									
3/30/2021	1.2			<1	<1				
3/31/2021		<1				1.1	240		
4/1/2021								74	
4/6/2021									
4/7/2021			<1						54
8/17/2021	<1		<1	<1					
8/18/2021		<1			1	0.9 (J)		78	
8/19/2021							160		
8/20/2021									60
2/9/2022	1	<1	<1	1.2		1.3			
2/10/2022					<1		190	80	41
2/11/2022									
2/14/2022									
8/17/2022	0.94 (J)			0.87 (J)					
8/18/2022		<1	<1		<1	<1	200	78	50
8/19/2022									
8/22/2022									
8/23/2022									
8/31/2022									
2/21/2023	1.3	1.2				1.6			
2/22/2023				1.4			200	52	
2/23/2023			1.3		1.6				57

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
5/10/2016									
5/11/2016	21.6	7.43	6.31	0.866 (J)	3.75				
5/12/2016						131	125	194	85.3
5/13/2016									
6/23/2016									
6/24/2016					3				
6/27/2016	17			0.86 (J)					
6/28/2016		6.3	3.7					200	
6/29/2016						120	120		84
6/30/2016									
8/16/2016									
8/17/2016	19	11	2.4	<1	1.8				
8/18/2016							130	180	
8/19/2016						120			81
8/22/2016									
10/13/2016									
10/14/2016									
10/17/2016		4.4	2.1	<1	1.4			190	
10/18/2016	17					130			83
10/19/2016							140		
12/5/2016									
12/6/2016	18	11	1.9	<1	1.4				
12/7/2016						140	160	200	85
12/8/2016									
2/14/2017	21			1	1.1				
2/15/2017		1.3	1.2			120	160	190	
2/16/2017									83
4/10/2017									
4/11/2017					1				
4/12/2017	18	2.8	1	<1				170	
4/13/2017						100	140		79
6/26/2017					0.99 (J)				
6/27/2017	19	8.2	1.2	<1			160	200	
6/28/2017						120			90
10/10/2017									
10/11/2017	15		0.82 (J)	<1	0.93 (J)			190	
10/12/2017		1.3				120	170		87
6/5/2018									
6/6/2018	14	2.9	0.89 (J)	<1	0.89 (J)				
6/7/2018						100	170	190	94
6/8/2018									
10/16/2018			1.3						
10/18/2018									
12/13/2018					0.76 (J)				
12/14/2018	10			<1			180	190	
12/17/2018		16				96			99
3/28/2019					1.2				
3/29/2019									
4/1/2019	16	21	0.81 (J)					180	
4/2/2019				1.3		95	180		100
9/12/2019									
9/13/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
9/16/2019			0.72 (J)	0.53 (J)	1.1				
9/17/2019	8.7	2.3					200	200	
9/18/2019						95			100
3/17/2020									
3/18/2020					1.3				
3/23/2020									
3/24/2020						71	190		100
3/25/2020		14	0.58 (J)	0.58 (J)					
3/26/2020	15								
3/27/2020								180	
9/14/2020	17	2.2	0.59 (J)	0.46 (J)	0.96 (J)				
9/15/2020						72	190	180	110
3/30/2021									
3/31/2021		15			1.1	75			120
4/1/2021	18			<1			210		
4/6/2021								190	
4/7/2021			1.3						
8/17/2021					1.1				
8/18/2021	12			<1		66	200		110
8/19/2021		2.2	<1					190	
8/20/2021									
2/9/2022	7.1			0.88 (J)	1.1				
2/10/2022			<1			73			100
2/11/2022		2.1					190		
2/14/2022								220	
8/17/2022									
8/18/2022	5.3		<1		<1				
8/19/2022		4.5		<1				200	
8/22/2022						61			110
8/23/2022									
8/31/2022							220		
2/21/2023									
2/22/2023	6.7	18	3.1	1.4	1.4		230		
2/23/2023						64		210	120

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	76.9	9.9	194	255	89.7		
5/13/2016						212	484
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		11	200		76		
6/29/2016	78			270		220	
6/30/2016							490
8/16/2016							
8/17/2016							
8/18/2016		14	190		78		
8/19/2016							
8/22/2016	78			270		220	500
10/13/2016							
10/14/2016							
10/17/2016					73		
10/18/2016	70	15	190	240		210	
10/19/2016							520
12/5/2016							
12/6/2016					76		
12/7/2016	80	17	200				510
12/8/2016				240		220	
2/14/2017							
2/15/2017			190		73		
2/16/2017	77	17		230		210	450
4/10/2017							
4/11/2017							
4/12/2017			170		70		
4/13/2017	70	15		220		190	380
6/26/2017							
6/27/2017		19	200		78		
6/28/2017	82			240		220	390
10/10/2017							
10/11/2017					72		
10/12/2017	76	20	190	210		210	430
6/5/2018							
6/6/2018							
6/7/2018	79	25	190	210	69		
6/8/2018						220	870
10/16/2018			200				
10/18/2018				210			1200
12/13/2018							
12/14/2018					74		
12/17/2018	88	28				270	
3/28/2019							
3/29/2019							
4/1/2019			190		82		
4/2/2019	92	31		220		240	1100
9/12/2019							
9/13/2019							

Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
9/16/2019							
9/17/2019	99	33	220	220	79	260	1100
9/18/2019							
3/17/2020							
3/18/2020							
3/23/2020	120			220		250	
3/24/2020							
3/25/2020							
3/26/2020							1000
3/27/2020		35	190		81		
9/14/2020					89		
9/15/2020	130	36	190	200		250	860
3/30/2021	140			220		270	960
3/31/2021			200				
4/1/2021		37					
4/6/2021							
4/7/2021					96		
8/17/2021							
8/18/2021	130						940
8/19/2021		38	200	230	82	280	
8/20/2021							
2/9/2022							
2/10/2022		45					890
2/11/2022	120		200	230	94	260	
2/14/2022							
8/17/2022							
8/18/2022					95		
8/19/2022			180				
8/22/2022	130			220		260	
8/23/2022							910
8/31/2022		49					
2/21/2023							
2/22/2023				230		260	790
2/23/2023	120	55	190		96		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
5/10/2016	44	64	100	96	110	59			
5/11/2016							527	330	195
5/12/2016									
5/13/2016									
6/23/2016	38	58		91	118				
6/24/2016						39			
6/27/2016			117					423	
6/28/2016									200
6/29/2016							562		
6/30/2016									
8/16/2016	22	52		100	110	38			
8/17/2016			86					410	
8/18/2016									200
8/19/2016									
8/22/2016							500		
10/13/2016	66				120				
10/14/2016		58	80	100		34			
10/17/2016								370	160
10/18/2016							490		
10/19/2016									
12/5/2016					110				
12/6/2016	54	72	110	110		70		420	220
12/7/2016							510		
12/8/2016									
2/14/2017	18	52	98	76	86	32		370	
2/15/2017									200
2/16/2017							520		
4/10/2017					120				
4/11/2017	50	78	110	120		64			
4/12/2017								370	180
4/13/2017							590		
6/26/2017	60	80		110	130	64			
6/27/2017			18				550	380	200
6/28/2017									
10/10/2017	36			100	110				
10/11/2017		64	94			42			190
10/12/2017							560	400	
6/5/2018	8	50	80	74	76				
6/6/2018						46	590	410	260
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	16	58	4 (J)	110	100	4 (J)			
12/14/2018								390	190
12/17/2018							510		
3/28/2019		58	79			43			
3/29/2019	<10			72	110				
4/1/2019							580	370	200
4/2/2019									
9/12/2019		22							
9/13/2019					200				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWC-9	SGWC-8	SGWC-12
9/16/2019	17		42	91		19	550		200
9/17/2019								380	
9/18/2019									
3/17/2020		30	98	100		52			
3/18/2020	25				110				
3/23/2020									
3/24/2020									
3/25/2020							540	360	
3/26/2020									200
3/27/2020									
9/14/2020	20	36	71	93	95	55	470	360	190
9/15/2020									
3/30/2021	32			110	110				
3/31/2021		35				57	430		
4/1/2021								360	
4/6/2021									
4/7/2021			95						210
8/17/2021	27		97	110					
8/18/2021		53			120	66		410	
8/19/2021							380		
8/20/2021									220
2/9/2022	45	60	93	100		54			
2/10/2022					130		410	400	210
2/11/2022									
2/14/2022									
8/17/2022	82			130					
8/18/2022		94	88		170	64	470	420	230
8/19/2022									
8/22/2022									
8/23/2022									
11/16/2022									
2/21/2023	41	65				55			
2/22/2023				100			430	350	
2/23/2023			90		130				220

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
5/10/2016									
5/11/2016	222	68	80	104	91				
5/12/2016						288	261	309	212
5/13/2016									
6/23/2016									
6/24/2016					78				
6/27/2016	275			112					
6/28/2016		41	134					333	
6/29/2016						272	323		214
6/30/2016									
8/16/2016									
8/17/2016	220	70	42	86	100				
8/18/2016							310	320	
8/19/2016						290			230
8/22/2016									
10/13/2016									
10/14/2016									
10/17/2016		6	24	60	58			320	
10/18/2016	210					270			190
10/19/2016							330 (D)		
12/5/2016									
12/6/2016	250	40	70	90	98				
12/7/2016						300	370	340	230
12/8/2016									
2/14/2017	210			54	78				
2/15/2017		18	34			260	350	340	
2/16/2017									200
4/10/2017									
4/11/2017					110				
4/12/2017	200	18	36	64				300	
4/13/2017						300	390		220
6/26/2017					110				
6/27/2017	180	50	8	40			350	320	
6/28/2017						250			190
10/10/2017									
10/11/2017	210		56	82	120			340	
10/12/2017		46				280	380		230
6/5/2018									
6/6/2018	210	38	40	100	120				
6/7/2018						220	360	340	210
6/8/2018									
10/16/2018			100						
10/18/2018									
12/13/2018					94				
12/14/2018	170			44			390	280	
12/17/2018		38				30			260
3/28/2019					110				
3/29/2019									
4/1/2019	200	82	33					330	
4/2/2019				91		250	400		240
9/12/2019									
9/13/2019									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-10	SGWC-11	SGWC-6	SGWA-4 (bg)	SGWC-23	SGWC-17	SGWC-14	SGWC-22
9/16/2019			<10	76	57				
9/17/2019	140	17					380	310	
9/18/2019						490			470
3/17/2020									
3/18/2020					140				
3/23/2020									
3/24/2020						210	430		250
3/25/2020		59	38	94					
3/26/2020	180								
3/27/2020								330	
9/14/2020	200	45	39	99	110				
9/15/2020						210	440	360	250
3/30/2021									
3/31/2021		64			120	220			240
4/1/2021	200			83			410		
4/6/2021								320	
4/7/2021			40						
8/17/2021					130				
8/18/2021	210			140		210	450		260
8/19/2021		54	36					370	
8/20/2021									
2/9/2022	170			130	110				
2/10/2022			39			230			250
2/11/2022		44					440		
2/14/2022								360	
8/17/2022									
8/18/2022	200		54		140				
8/19/2022		63		150				370	
8/22/2022						220			3400
8/23/2022									
11/16/2022							430		
2/21/2023									
2/22/2023	170	56	41	120	120		470		
2/23/2023						210		390	260

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	260	46	298	386	190		
5/13/2016						366	728
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		60	337		198		
6/29/2016	311			436		370	
6/30/2016							742
8/16/2016							
8/17/2016							
8/18/2016		48	310		180		
8/19/2016							
8/22/2016	390			290		350	670
10/13/2016							
10/14/2016							
10/17/2016					140		
10/18/2016	300	60	320	200		340	
10/19/2016							700
12/5/2016							
12/6/2016					110		
12/7/2016	310	64	270				720
12/8/2016				370		350	
2/14/2017							
2/15/2017			310		160		
2/16/2017	310	40		350		340	600
4/10/2017							
4/11/2017							
4/12/2017			280		140		
4/13/2017	300	76		380		350	640
6/26/2017							
6/27/2017		50	290		170		
6/28/2017	290			320		340	540
10/10/2017							
10/11/2017					170		
10/12/2017	290	68	330	350		370	640
6/5/2018							
6/6/2018							
6/7/2018	260	74	310	320	190		
6/8/2018						320	820
10/16/2018			350				
10/18/2018				370			1200
12/13/2018							
12/14/2018					140		
12/17/2018	310	42				250	
3/28/2019							
3/29/2019							
4/1/2019			330		190		
4/2/2019	300	73		370		420	1700
9/12/2019							
9/13/2019							

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/8/2023 1:42 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-16	SGWC-15	SGWC-20	SGWC-13	SGWC-19	SGWC-18
9/16/2019							
9/17/2019	290	59	320	320	170	400	1600
9/18/2019							
3/17/2020							
3/18/2020							
3/23/2020	330			330		390	
3/24/2020							
3/25/2020							
3/26/2020							1600
3/27/2020		99	330		200		
9/14/2020					190		
9/15/2020	390	90	340	350		450	1500
3/30/2021	380			350		420	1500
3/31/2021			300				
4/1/2021		88					
4/6/2021							
4/7/2021					200		
8/17/2021							
8/18/2021	380						1400
8/19/2021		100	320	340	210	440	
8/20/2021							
2/9/2022							
2/10/2022		100					1400
2/11/2022	350		310	350	200	440	
2/14/2022							
8/17/2022							
8/18/2022					240		
8/19/2022			320				
8/22/2022	380			370		450	
8/23/2022							1300
11/16/2022		110					
2/21/2023							
2/22/2023				350		440	1200
2/23/2023	350	130	300		230		

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWC-10	0.01553	118	81	Yes	20	10	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-11	0.0543	169	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-18	0.5628	149	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-21	-0.04312	-83	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-22	0.02696	97	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-2 (bg)	0.2587	95	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-24 (bg)	0.6427	128	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-4 (bg)	0.5922	109	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-17	3.724	156	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-19	1.616	105	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-21	1.178	87	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-22	1.388	130	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-23	-1.358	-110	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-3 (bg)	-0.1516	-87	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-12	0.1513	96	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-13	1.031	142	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-15	0.2171	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-16	0.2762	104	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-18	1.834	135	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-21	0.7168	119	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-23	0.3135	95	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-7	-0.4515	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-9	1.416	148	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-4 (bg)	-0.004385	-104	-98	Yes	23	39.13	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-18	0.02781	129	98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-12	4.824	135	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-13	2.796	85	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-16	5.958	184	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-17	13.68	162	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-19	8.596	103	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-21	8.641	126	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-22	5.304	137	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-23	-10.41	-148	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-7	-1.737	-108	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-4 (bg)	6.444	90	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-13	9.65	95	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	21.42	151	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	16.19	88	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	9.645	107	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	-11.85	-87	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWA-1 (bg)	0	-5	-81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-2 (bg)	0	-5	-81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-24 (bg)	0	7	81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-25 (bg)	0	35	81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-3 (bg)	0	-2	-81	No	20	85	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-4 (bg)	0	17	81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-5 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	**SGWC-10**	**0.01553**	**118**	**81**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**SGWC-11**	**0.0543**	**169**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	SGWC-13	-0.0008532	-7	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-14	0.02814	62	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-15	-0.02781	-36	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-16	0.01426	81	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-17	0	3	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**SGWC-18**	**0.5628**	**149**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	SGWC-19	0	11	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-20	-0.0758	-79	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**SGWC-21**	**-0.04312**	**-83**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**SGWC-22**	**0.02696**	**97**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	SGWC-23	-0.02487	-74	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-9	-0.02149	-44	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-1 (bg)	-0.05984	-53	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWA-2 (bg)**	**0.2587**	**95**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWA-24 (bg)**	**0.6427**	**128**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWA-25 (bg)	-0.2216	-67	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-3 (bg)	0.1365	54	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWA-4 (bg)**	**0.5922**	**109**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWA-5 (bg)	0.05116	80	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-12	0	16	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-14	0.4222	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWC-17**	**3.724**	**156**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWC-18	0.8149	14	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**SGWC-19**	**1.616**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWC-21**	**1.178**	**87**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWC-22**	**1.388**	**130**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**SGWC-23**	**-1.358**	**-110**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	SGWC-8	0.5073	48	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-9	-1.833	-75	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-1 (bg)	0	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-2 (bg)	0	-5	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-24 (bg)	0.1252	66	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-25 (bg)	0	-9	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWA-3 (bg)**	**-0.1516**	**-87**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWA-4 (bg)	0.009116	26	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-5 (bg)	0.01895	25	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-10	0.03144	18	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-11	0.2118	58	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-12**	**0.1513**	**96**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**SGWC-13**	**1.031**	**142**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-14	0	39	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-15**	**0.2171**	**88**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**SGWC-16**	**0.2762**	**104**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-17	-0.02186	-17	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-18**	**1.834**	**135**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-19	0.1942	48	81	No	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	SGWC-20	-0.1153	-56	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-21**	**0.7168**	**119**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-22	0.06685	62	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-23**	**0.3135**	**95**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**SGWC-7**	**-0.4515**	**-120**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	SGWC-8	0	4	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**SGWC-9**	**1.416**	**148**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	SGWA-1 (bg)	0	-80	-105	No	24	83.33	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-2 (bg)	-0.004415	-65	-105	No	24	41.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-24 (bg)	-0.008118	-89	-105	No	24	41.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-25 (bg)	-0.002712	-62	-105	No	24	41.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-3 (bg)	0	-28	-105	No	24	62.5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**SGWA-4 (bg)**	**-0.004385**	**-104**	**-98**	**Yes**	**23**	**39.13**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	SGWA-5 (bg)	0	-61	-105	No	24	75	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-8	-0.006342	-21	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-1 (bg)	-0.03259	-91	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-2 (bg)	0.008725	38	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-24 (bg)	0.005979	39	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-25 (bg)	-0.01734	-92	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-3 (bg)	0.01993	64	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-4 (bg)	-0.01746	-93	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-5 (bg)	-0.003621	-12	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-15	-0.01198	-53	-92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	**SGWC-18**	**0.02781**	**129**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	SGWC-20	0.00188	19	98	No	23	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-1 (bg)	0	18	81	No	20	25	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-2 (bg)	0	44	81	No	20	60	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-24 (bg)	0	28	81	No	20	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-25 (bg)	0	43	81	No	20	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-3 (bg)	-0.1288	-70	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-4 (bg)	-0.1069	-69	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-5 (bg)	0	46	81	No	20	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-10	0	1	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-12**	**4.824**	**135**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-13**	**2.796**	**85**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-14	0	21	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-15	0	-1	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-16**	**5.958**	**184**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-17**	**13.68**	**162**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-18	70.65	59	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-19**	**8.596**	**103**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-20	-4.112	-64	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	**SGWC-21**	**8.641**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-22**	**5.304**	**137**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-23**	**-10.41**	**-148**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	**SGWC-7**	**-1.737**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate, total (mg/L)	SGWC-8	1.629	75	81	No	20	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-9	-14.4	-65	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-1 (bg)	-0.762	-6	-81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-2 (bg)	0.6419	30	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-24 (bg)	2.031	41	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-25 (bg)	-2.489	-41	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-3 (bg)	2.515	34	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWA-4 (bg)**	**6.444**	**90**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWA-5 (bg)	-0.9463	-12	-81	No	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

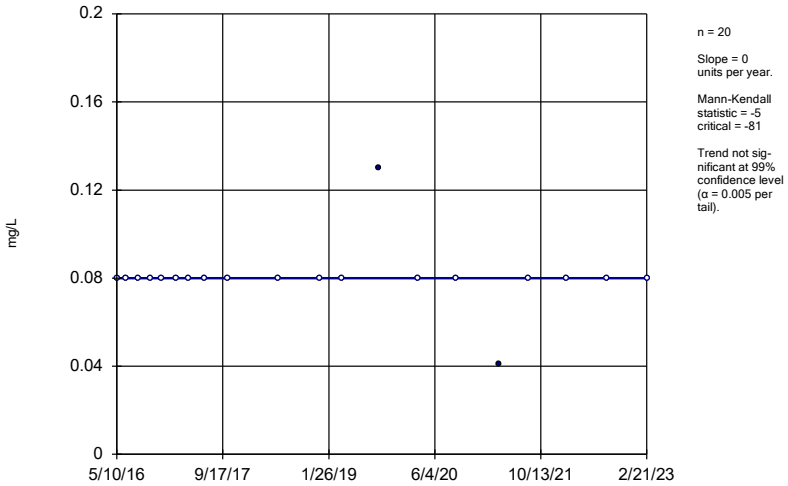
Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	SGWC-12	3.511	66	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-13**	**9.65**	**95**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	7.165	77	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	0.5601	20	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-17**	**21.42**	**151**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	122.8	63	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-19**	**16.19**	**88**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	0	-8	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	9.473	53	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**SGWC-22**	**9.645**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**SGWC-23**	**-11.85**	**-87**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	-2.185	-21	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	-15.01	-65	-81	No	20	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-1 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -81

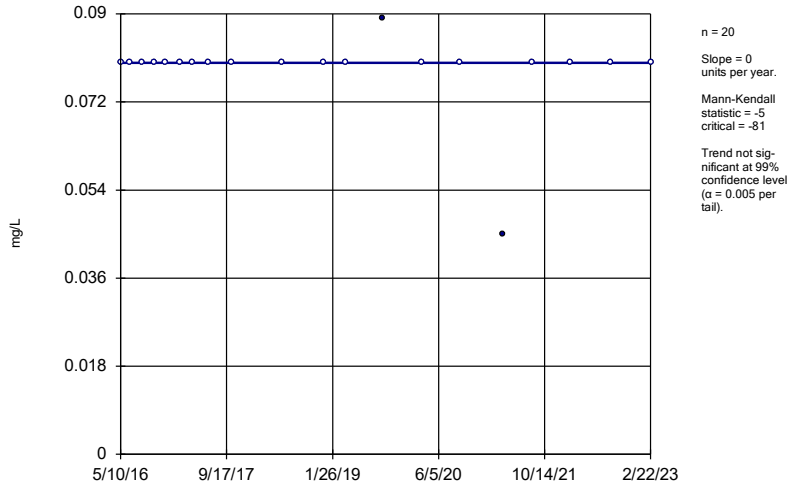
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-2 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -81

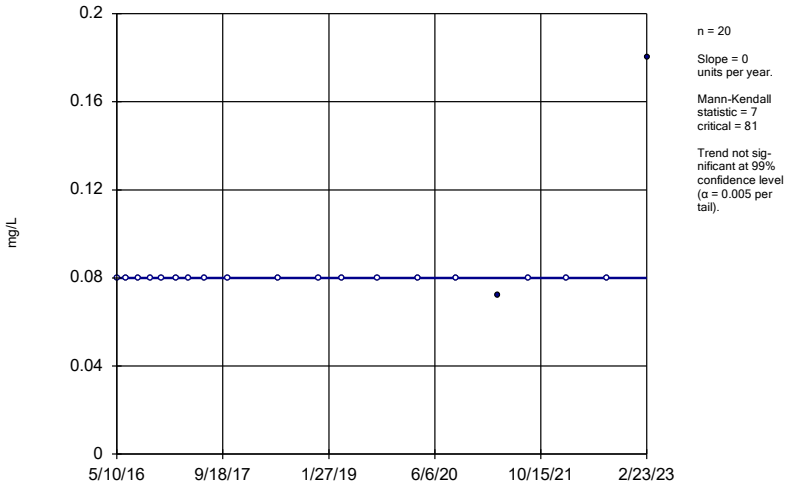
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-24 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 81

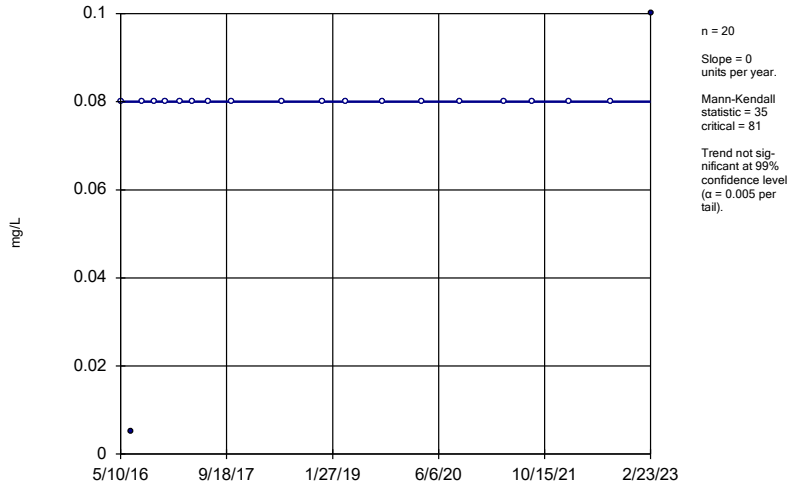
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-25 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 35
critical = 81

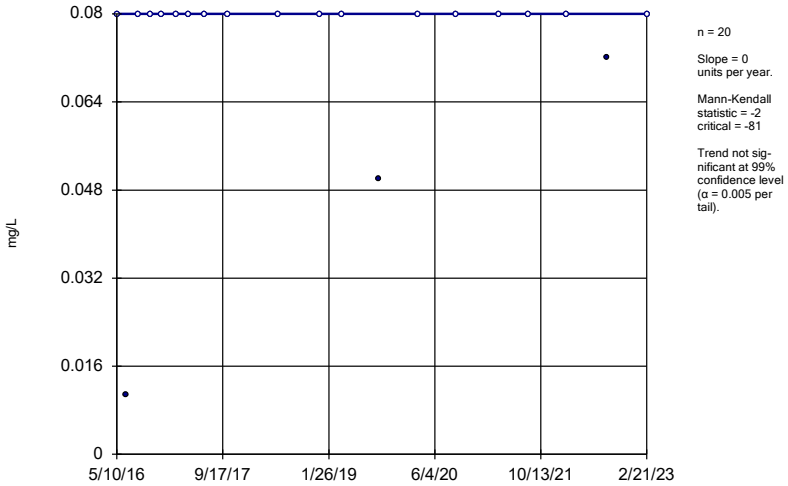
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-3 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -81

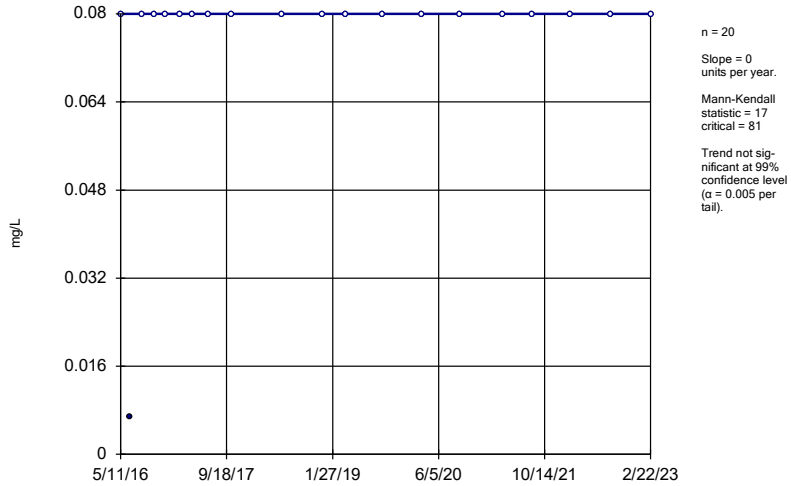
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-4 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

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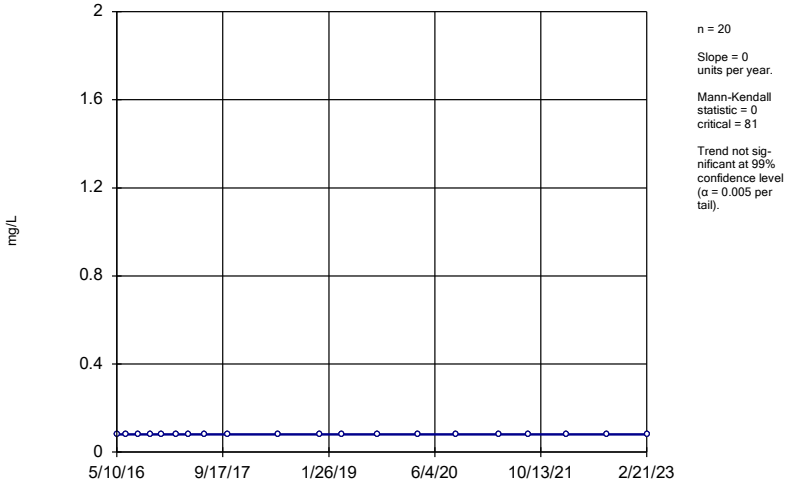
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-5 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 81

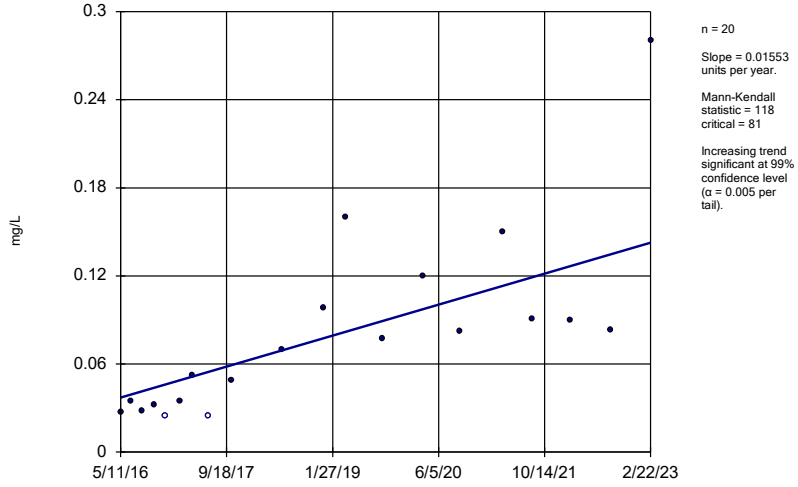
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWC-10



n = 20

Slope = 0.01553 units per year.

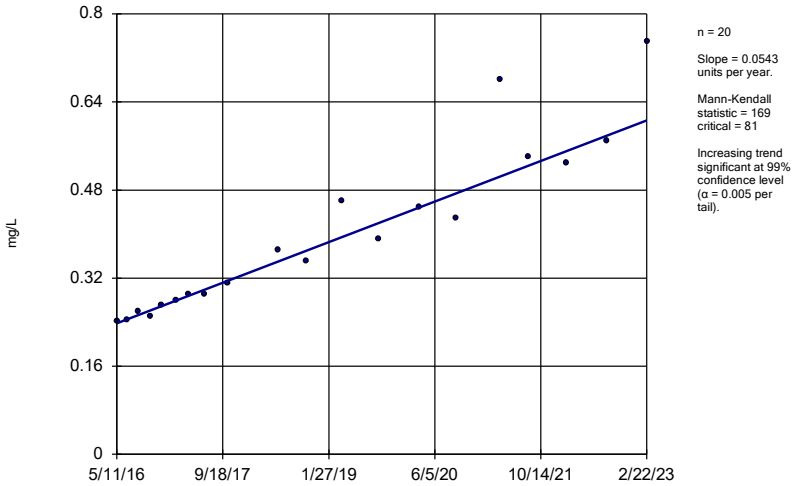
Mann-Kendall statistic = 118
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-11



n = 20

Slope = 0.0543 units per year.

Mann-Kendall statistic = 169
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

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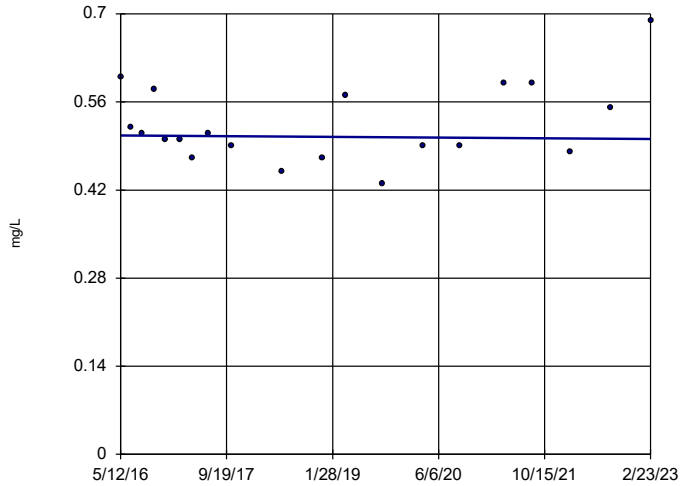
Sen's Slope Estimator

SGWC-13



n = 20

Slope = -0.0008532 units per year.

Mann-Kendall statistic = -7
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

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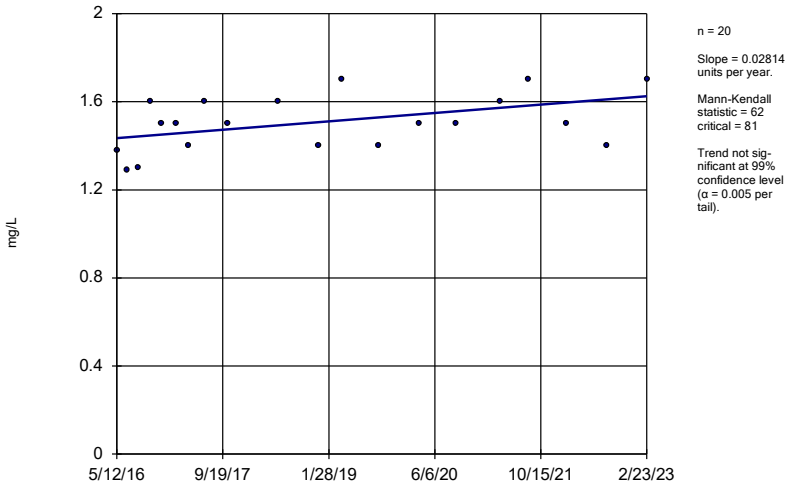
Sen's Slope Estimator

SGWC-14



n = 20

Slope = 0.02814 units per year.

Mann-Kendall statistic = 62
critical = 81

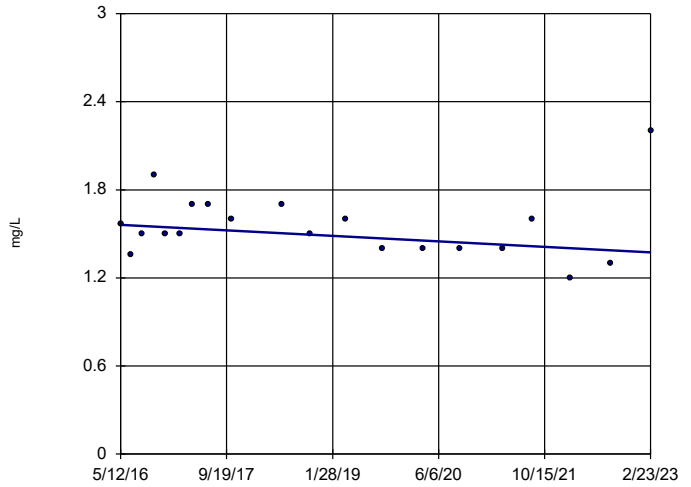
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-15



n = 20

Slope = -0.02781 units per year.

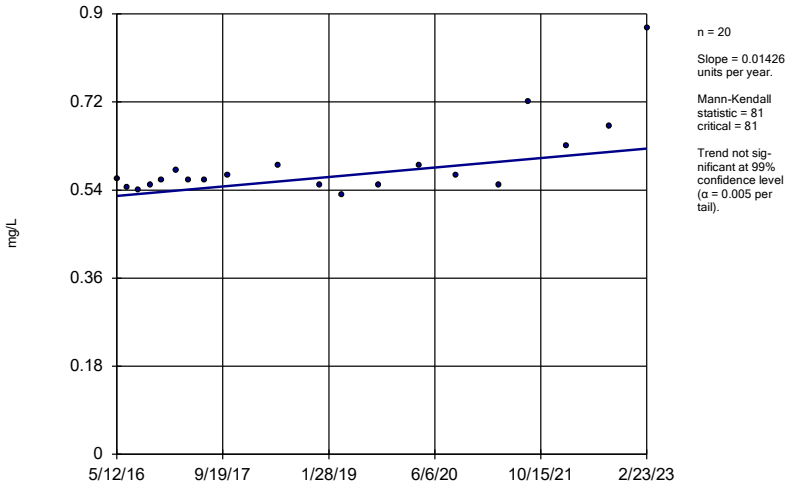
Mann-Kendall statistic = -36
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-16



n = 20

Slope = 0.01426 units per year.

Mann-Kendall statistic = 81
critical = 81

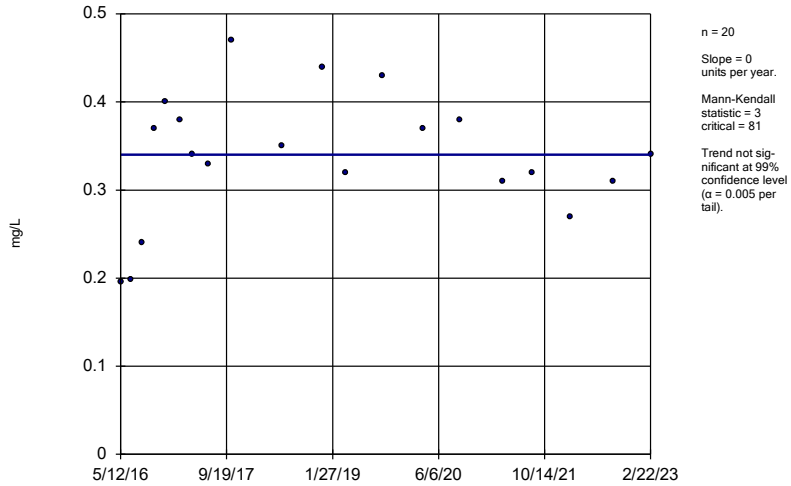
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-17



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 81

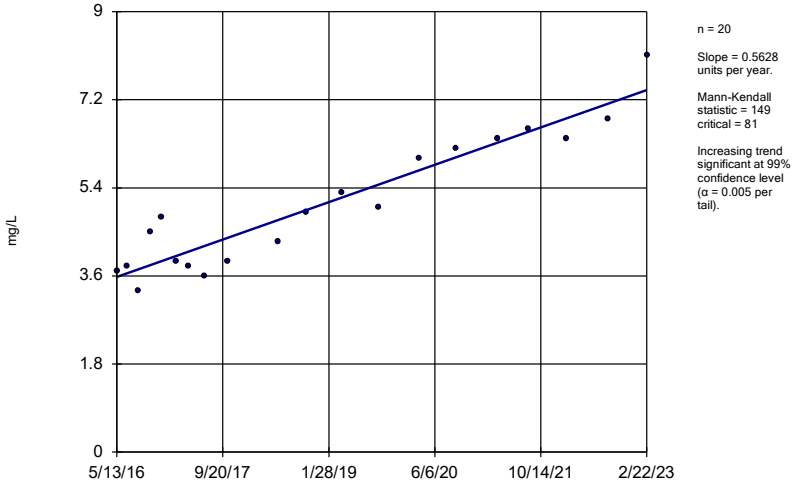
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-18



n = 20

Slope = 0.5628 units per year.

Mann-Kendall statistic = 149
critical = 81

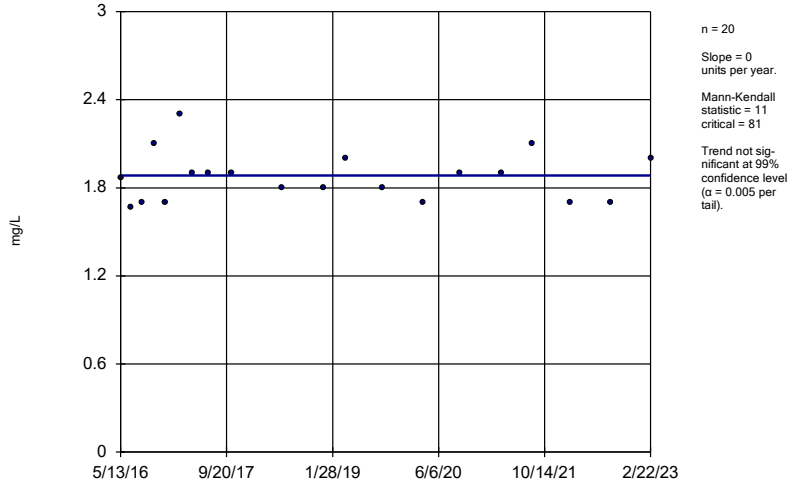
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-19



n = 20

Slope = 0 units per year.

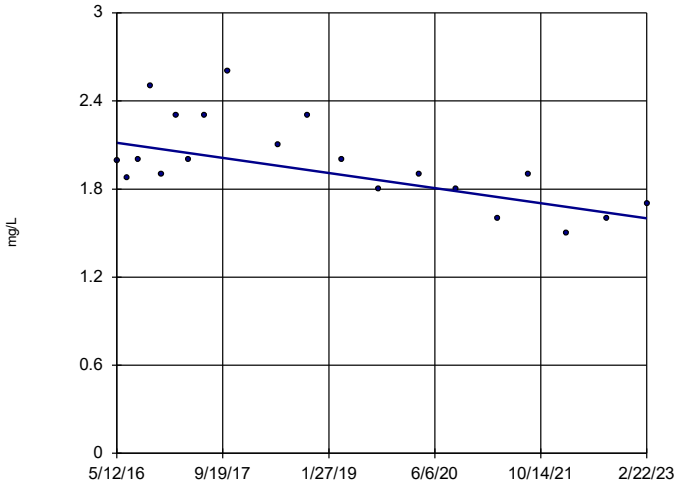
Mann-Kendall statistic = 11
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-20



n = 20

Slope = -0.0758 units per year.

Mann-Kendall statistic = -79
critical = -81

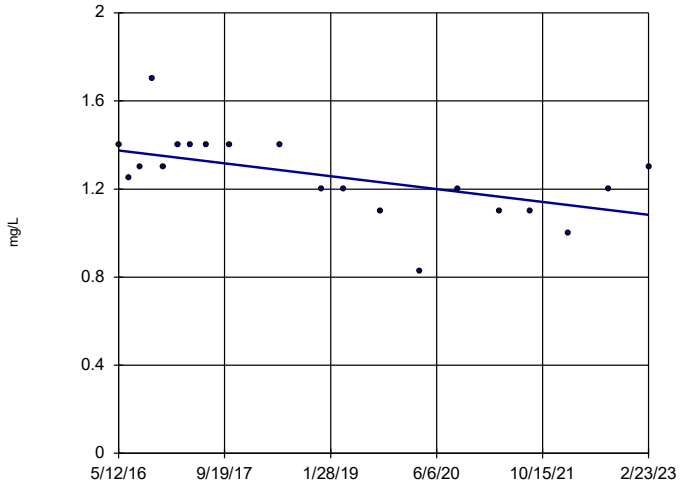
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-21



n = 20

Slope = -0.04312 units per year.

Mann-Kendall statistic = -83
critical = -81

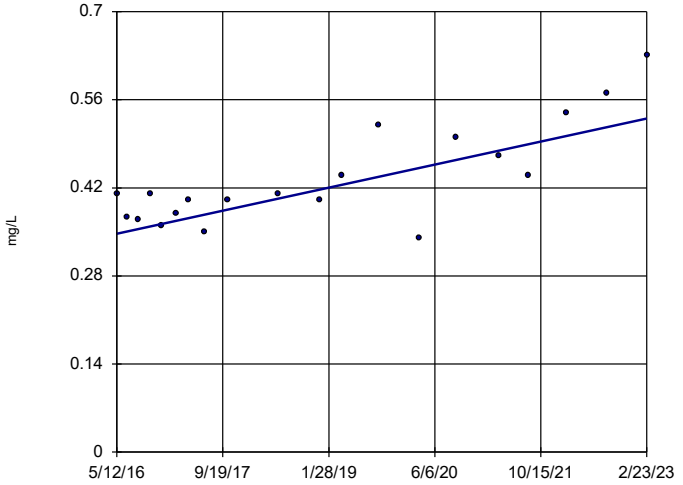
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-22



n = 20

Slope = 0.02696 units per year.

Mann-Kendall statistic = 97
critical = 81

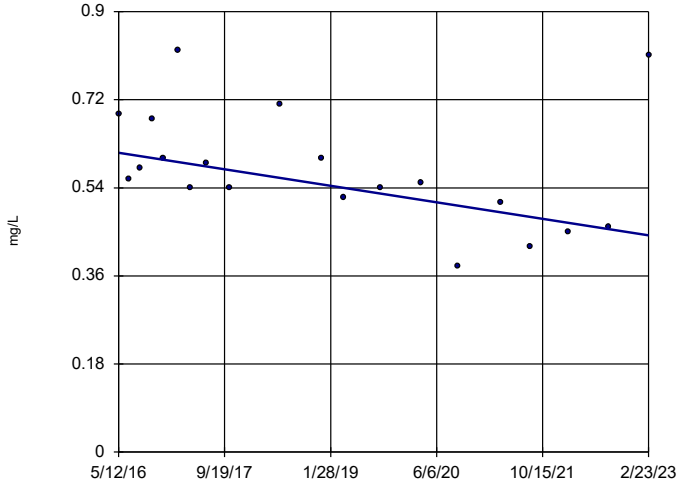
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-23



n = 20

Slope = -0.02487 units per year.

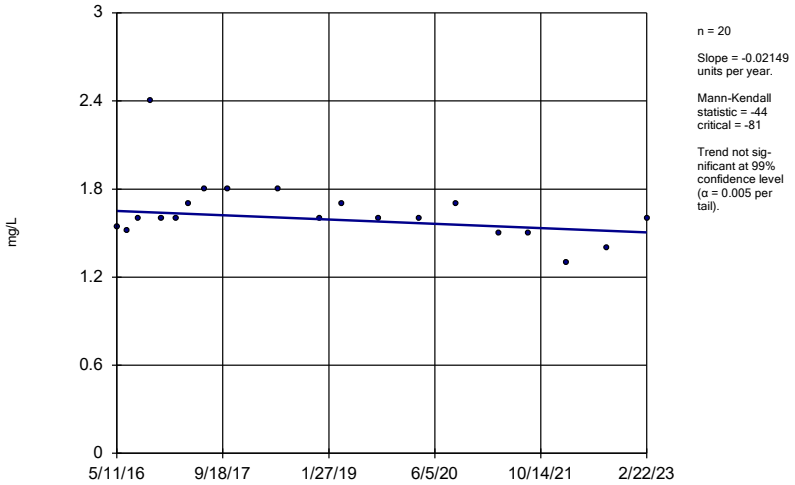
Mann-Kendall statistic = -74
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-9



n = 20

Slope = -0.02149 units per year.

Mann-Kendall statistic = -44
critical = -81

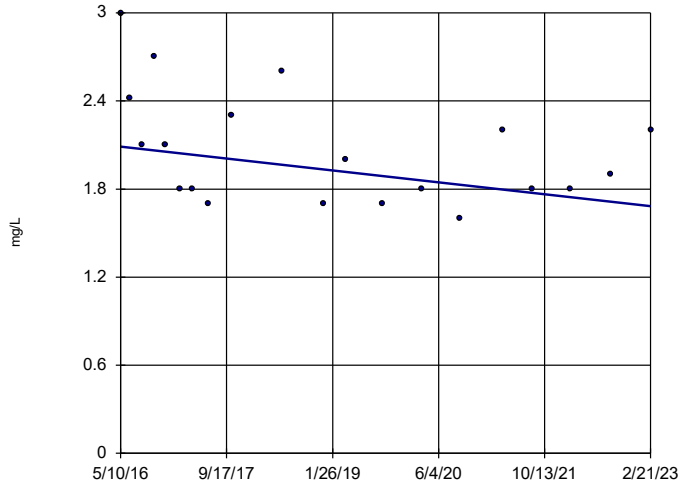
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-1 (bg)



n = 20

Slope = -0.05984 units per year.

Mann-Kendall statistic = -53
critical = -81

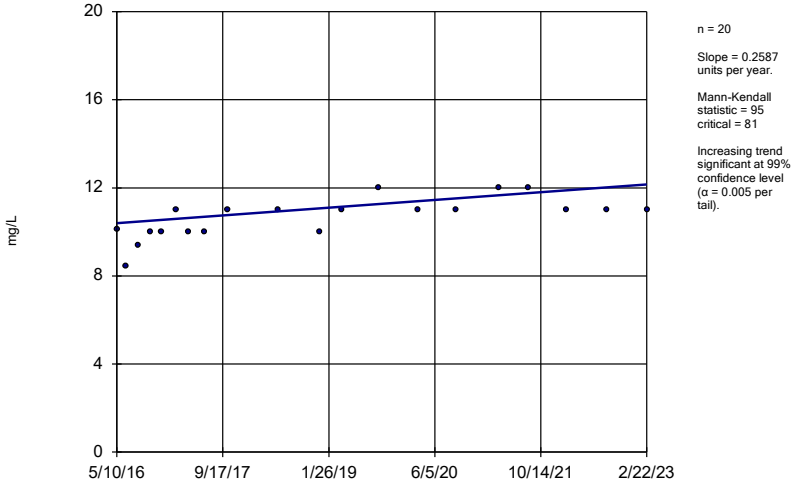
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-2 (bg)



n = 20

Slope = 0.2587 units per year.

Mann-Kendall statistic = 95
critical = 81

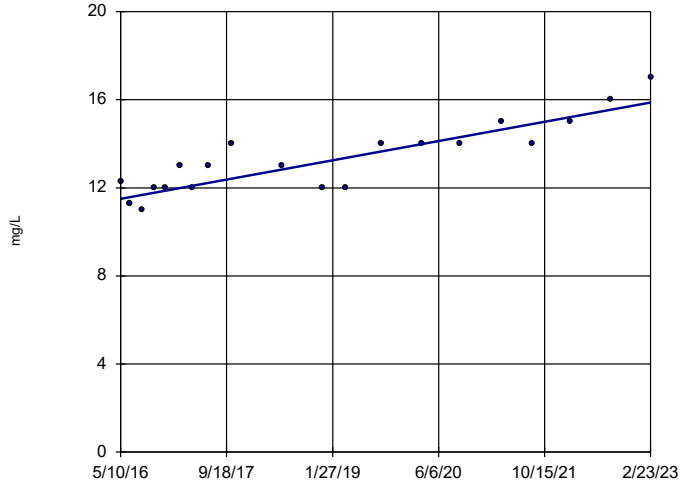
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-24 (bg)



n = 20

Slope = 0.6427 units per year.

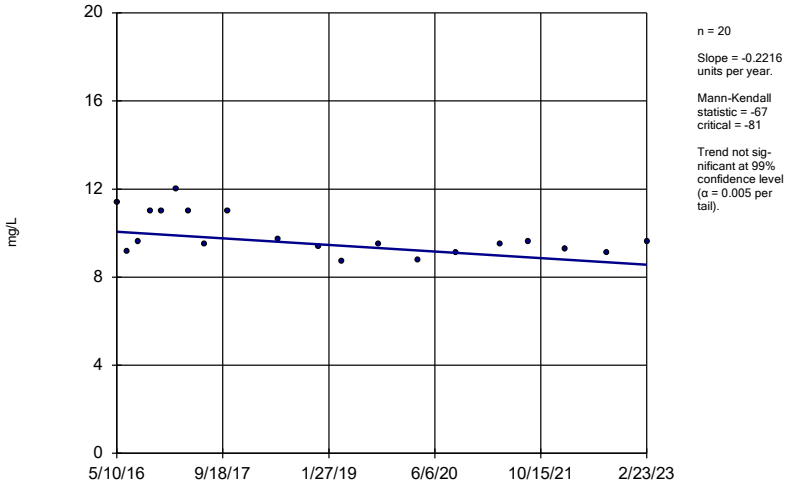
Mann-Kendall statistic = 128
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWA-25 (bg)



n = 20

Slope = -0.2216 units per year.

Mann-Kendall statistic = -67 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

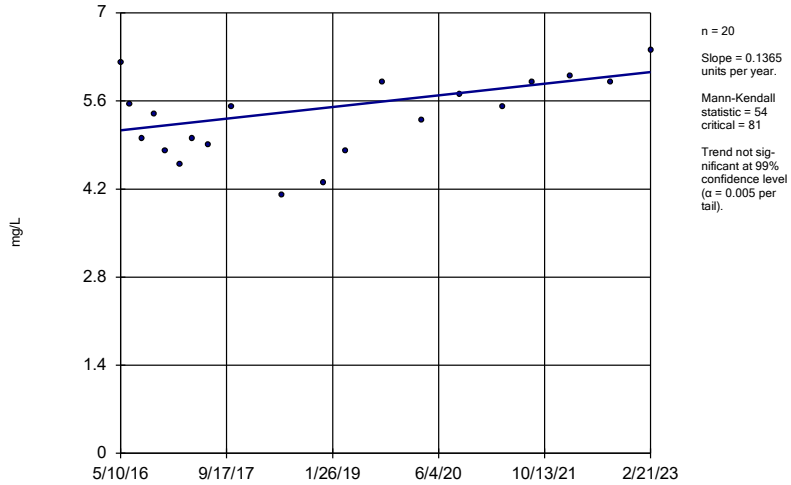
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-3 (bg)



n = 20

Slope = 0.1365 units per year.

Mann-Kendall statistic = 54 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

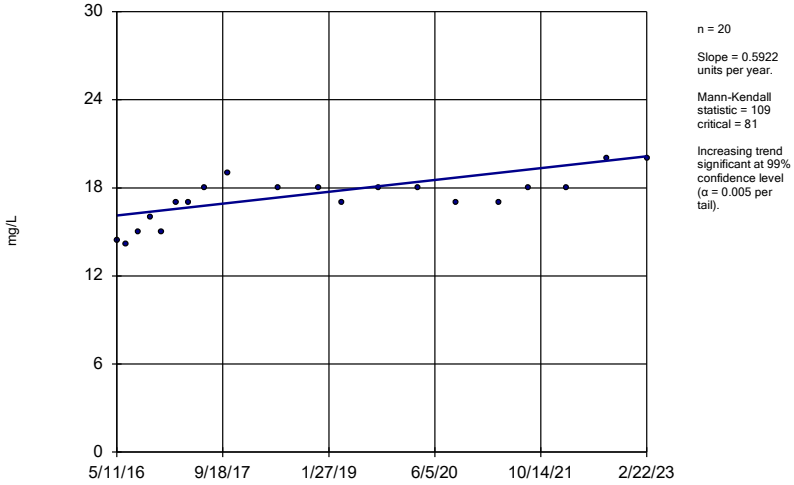
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-4 (bg)



n = 20

Slope = 0.5922 units per year.

Mann-Kendall statistic = 109 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

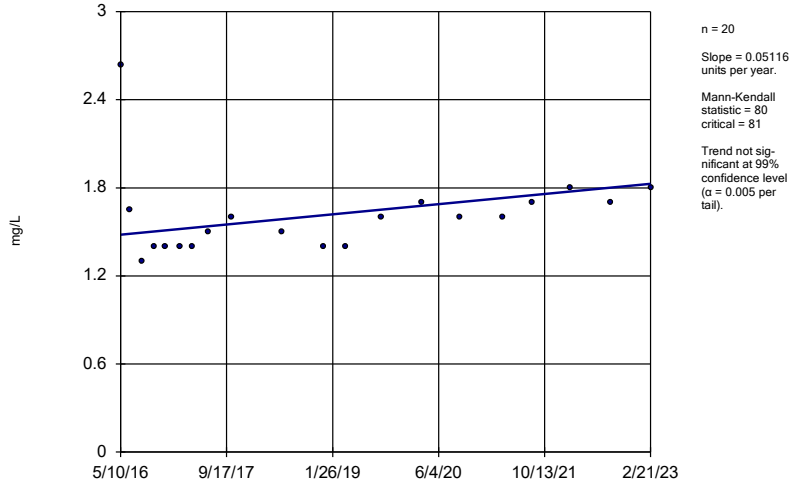
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-5 (bg)



n = 20

Slope = 0.05116 units per year.

Mann-Kendall statistic = 80 critical = 81

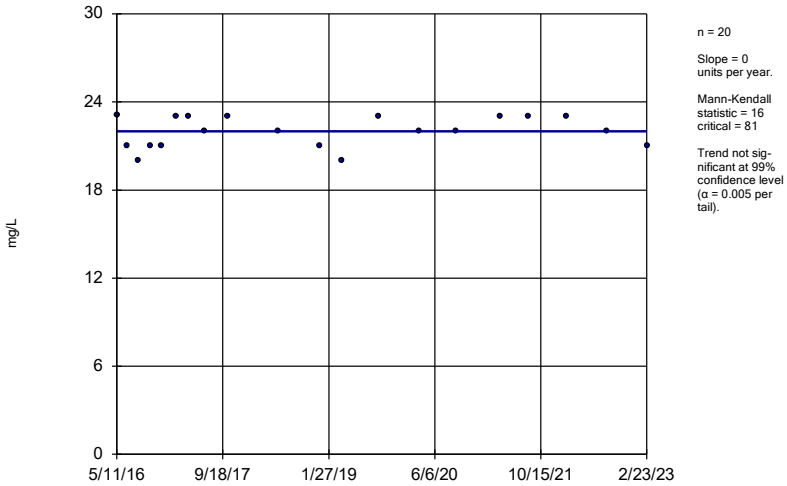
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-12



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 16 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

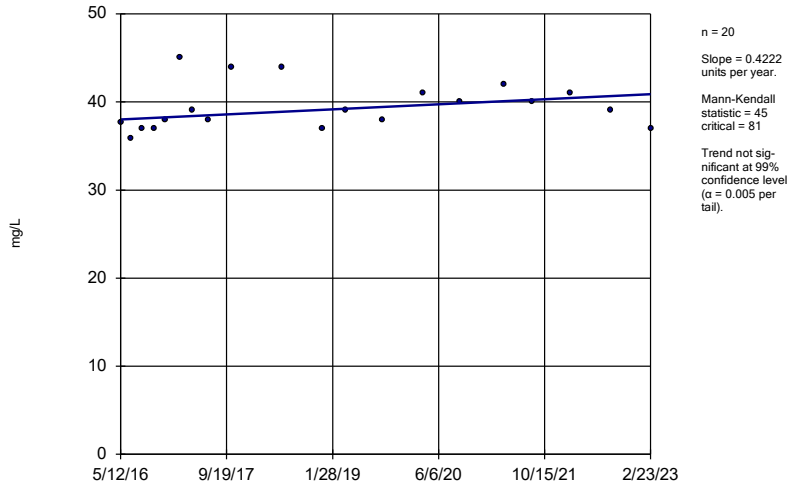
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-14



n = 20

Slope = 0.4222 units per year.

Mann-Kendall statistic = 45 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

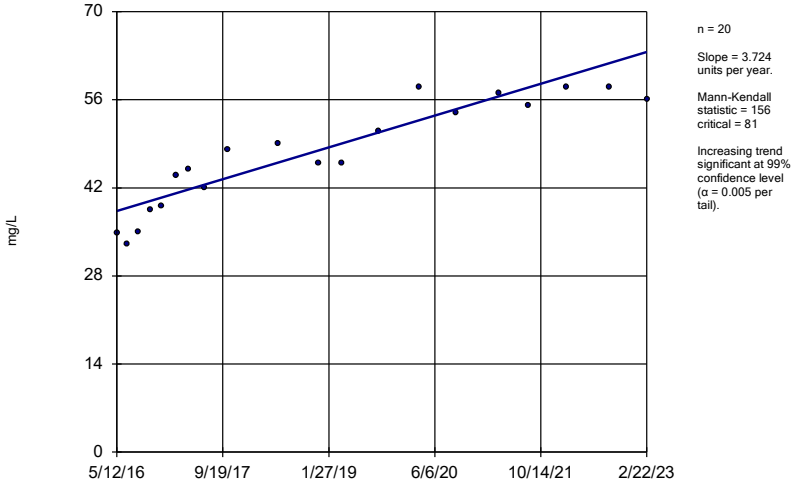
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-17



n = 20

Slope = 3.724 units per year.

Mann-Kendall statistic = 156 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

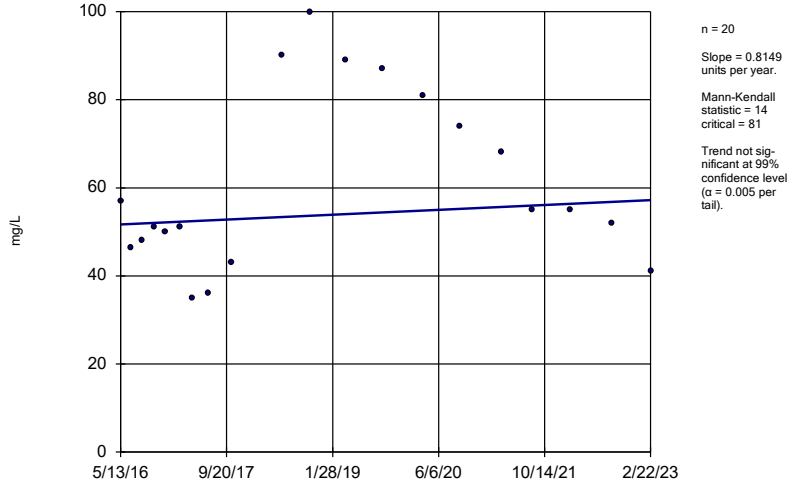
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-18



n = 20

Slope = 0.8149 units per year.

Mann-Kendall statistic = 14 critical = 81

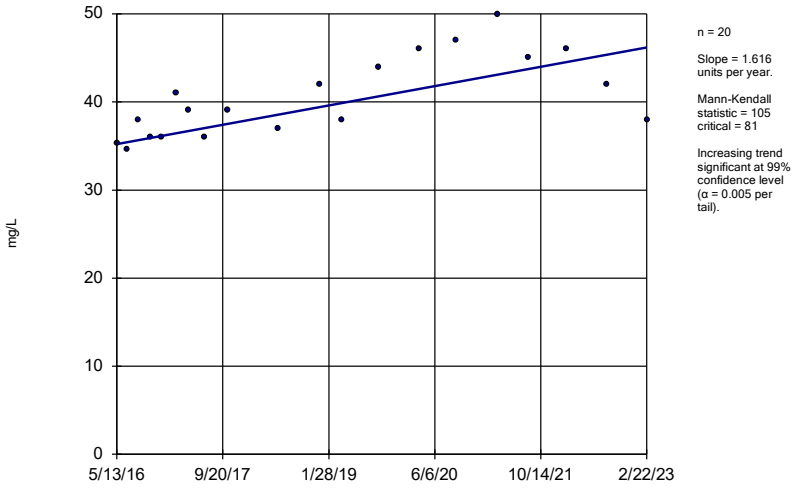
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-19



n = 20

Slope = 1.616 units per year.

Mann-Kendall statistic = 105 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

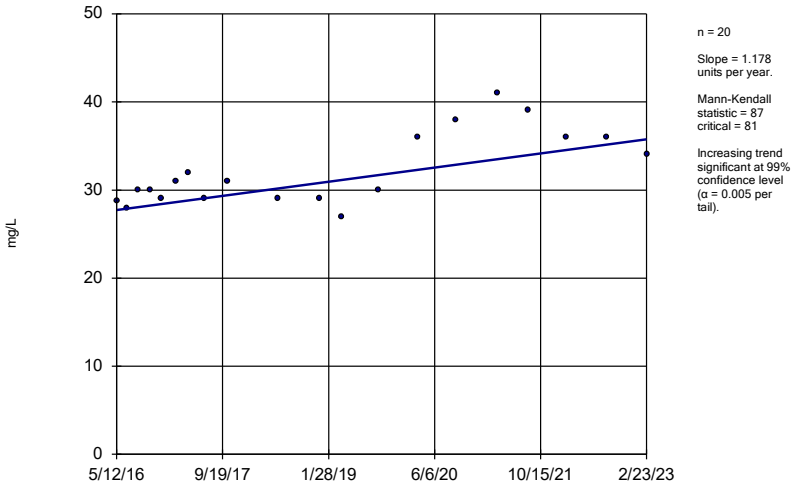
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-21



n = 20

Slope = 1.178 units per year.

Mann-Kendall statistic = 87 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

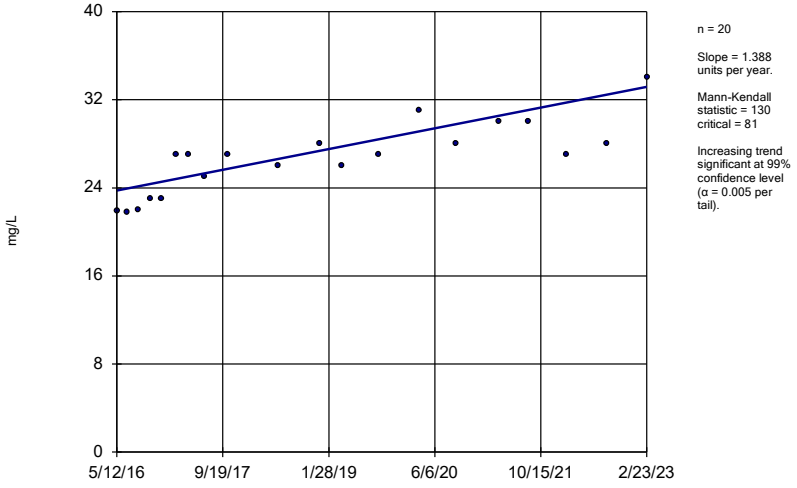
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-22



n = 20

Slope = 1.388 units per year.

Mann-Kendall statistic = 130 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

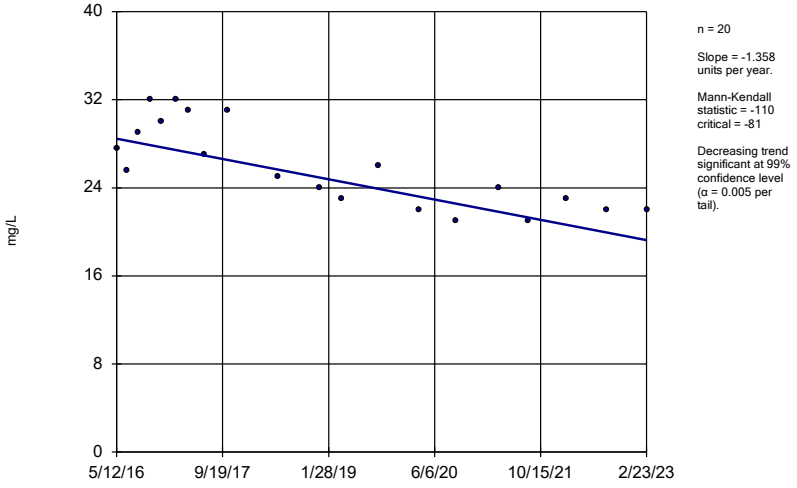
Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-23



n = 20

Slope = -1.358 units per year.

Mann-Kendall statistic = -110 critical = -81

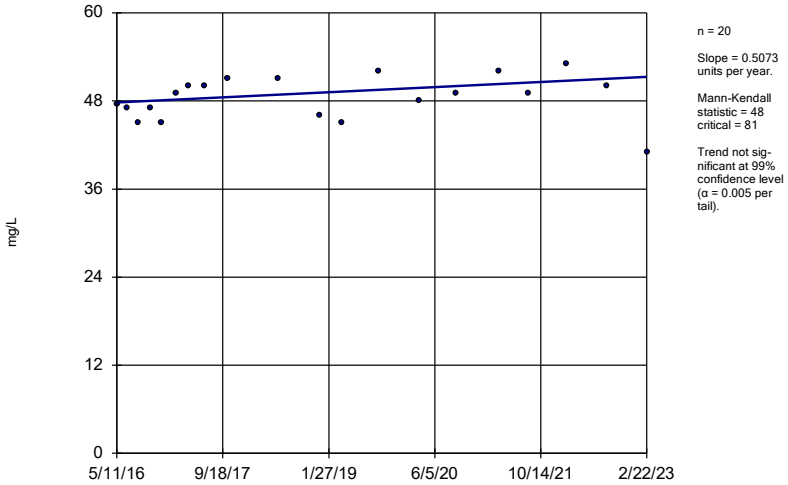
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-8

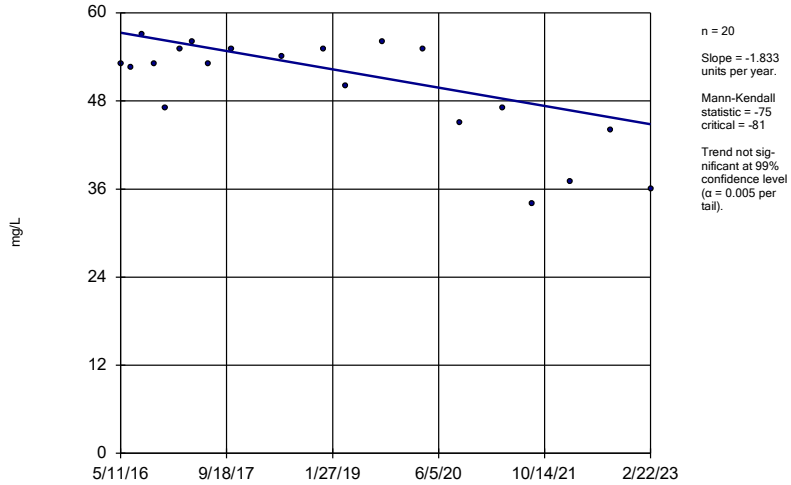


Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-9

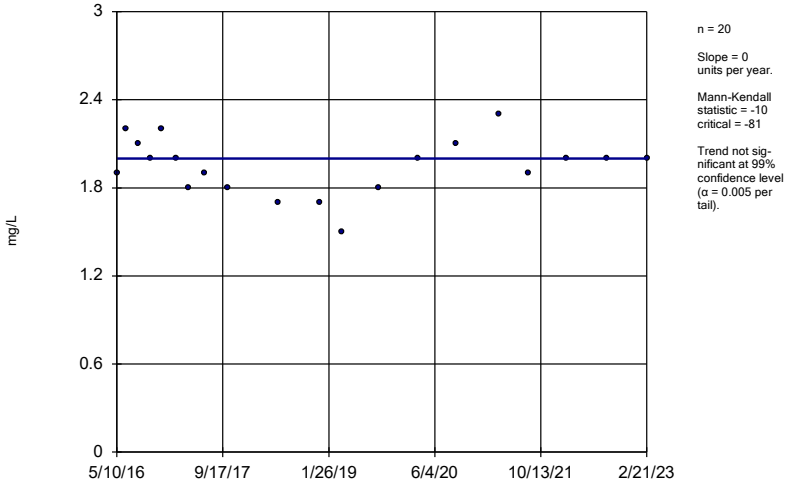


Constituent: Calcium, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-1 (bg)

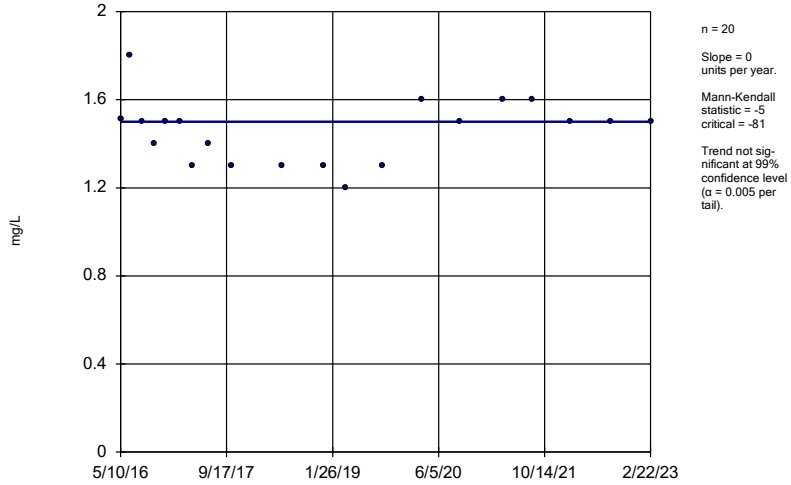


Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

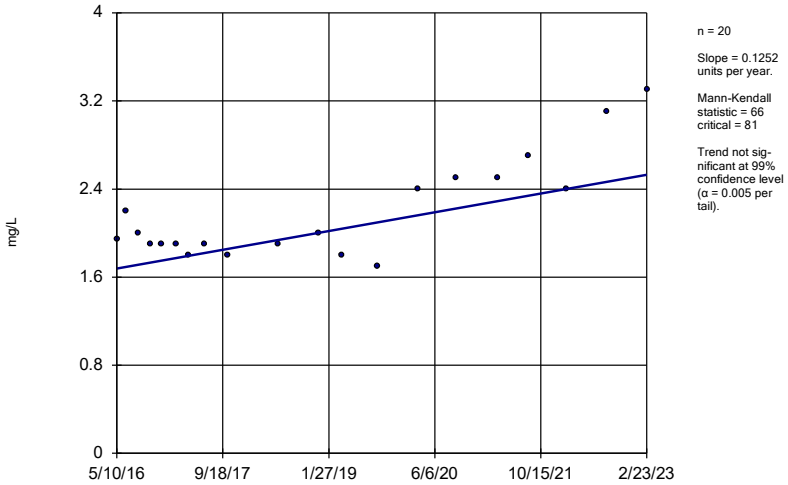
SGWA-2 (bg)



Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWA-24 (bg)



n = 20

Slope = 0.1252 units per year.

Mann-Kendall statistic = 66 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

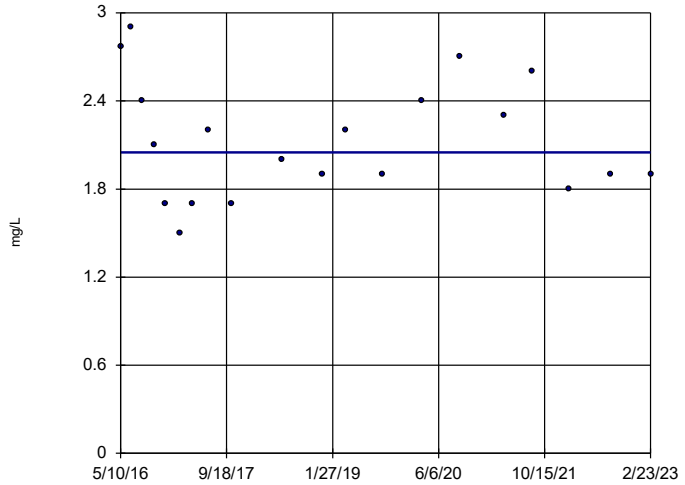
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-25 (bg)



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).

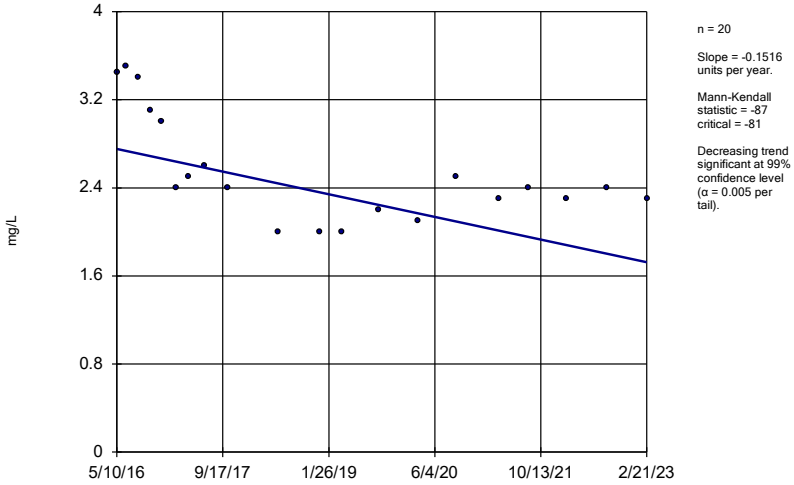
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-3 (bg)



n = 20

Slope = -0.1516 units per year.

Mann-Kendall statistic = -87 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

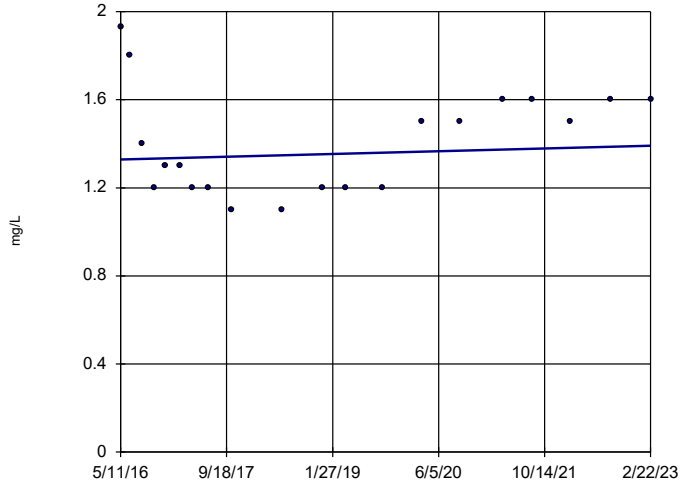
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-4 (bg)



n = 20

Slope = 0.009116 units per year.

Mann-Kendall statistic = 26 critical = 81

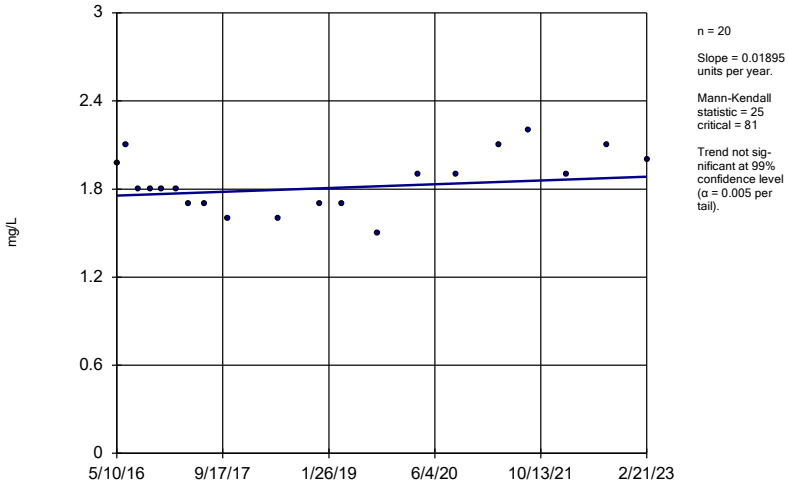
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWA-5 (bg)



n = 20

Slope = 0.01895 units per year.

Mann-Kendall statistic = 25
critical = 81

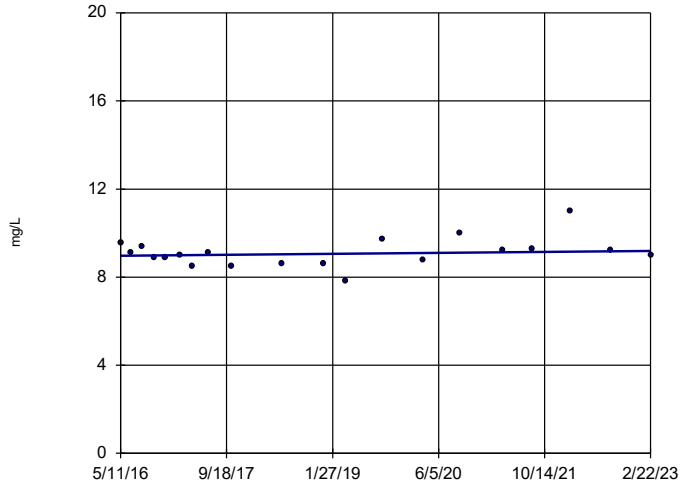
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-10



n = 20

Slope = 0.03144 units per year.

Mann-Kendall statistic = 18
critical = 81

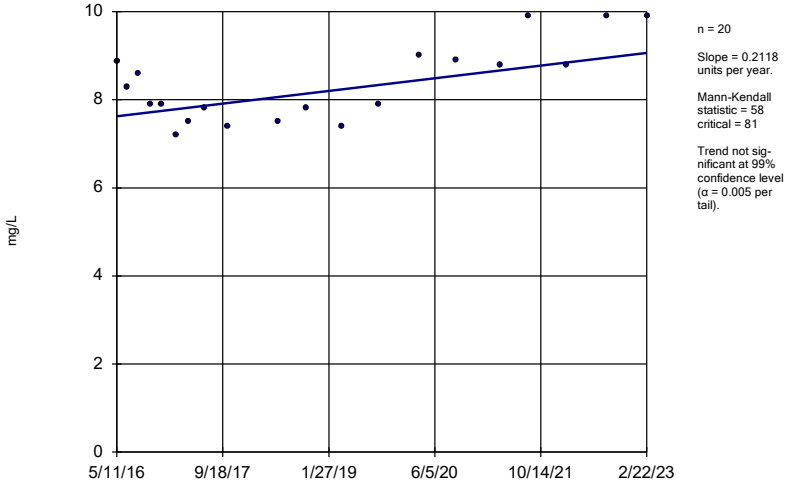
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-11



n = 20

Slope = 0.2118 units per year.

Mann-Kendall statistic = 58
critical = 81

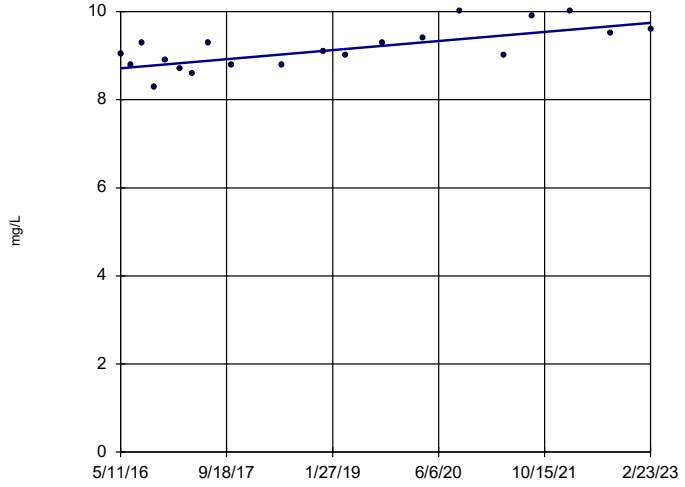
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-12



n = 20

Slope = 0.1513 units per year.

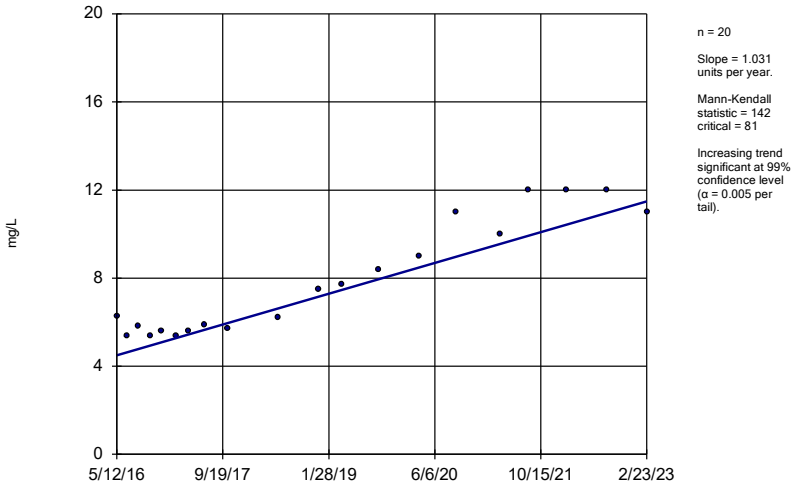
Mann-Kendall statistic = 96
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-13



n = 20

Slope = 1.031 units per year.

Mann-Kendall statistic = 142 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

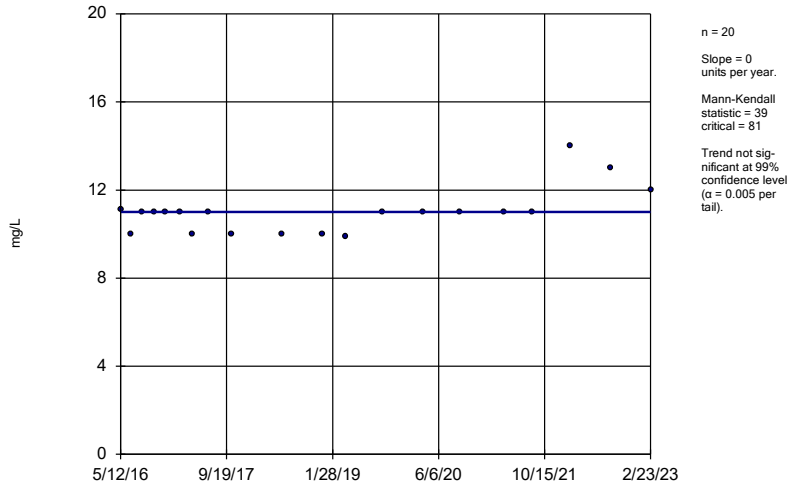
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-14



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 39 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

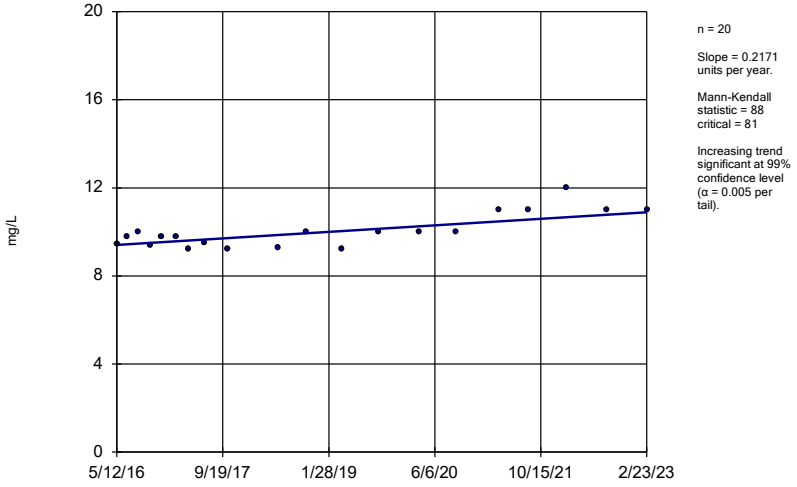
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-15



n = 20

Slope = 0.2171 units per year.

Mann-Kendall statistic = 88 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

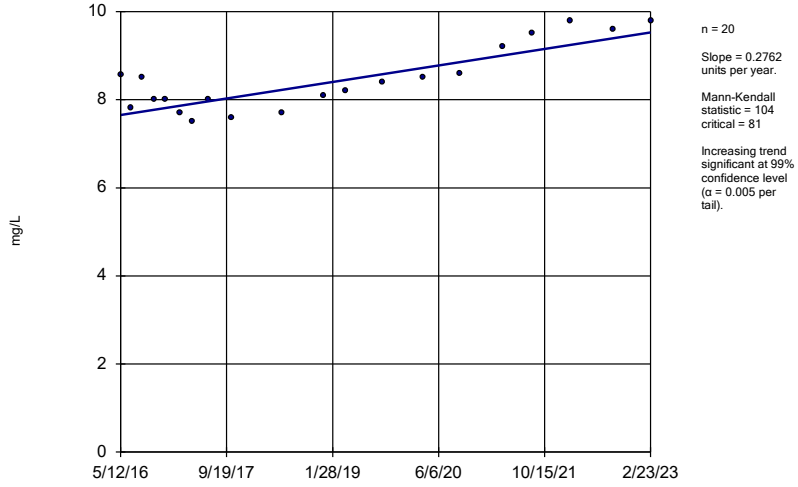
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-16



n = 20

Slope = 0.2762 units per year.

Mann-Kendall statistic = 104 critical = 81

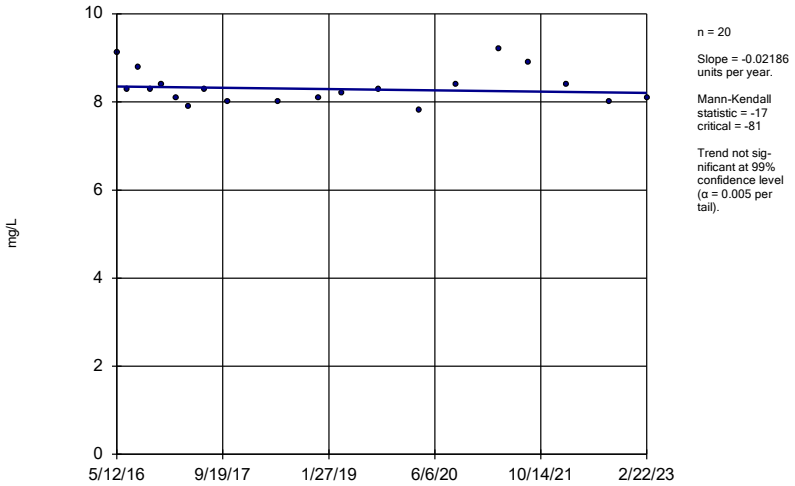
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-17



n = 20

Slope = -0.02186 units per year.

Mann-Kendall statistic = -17
critical = -81

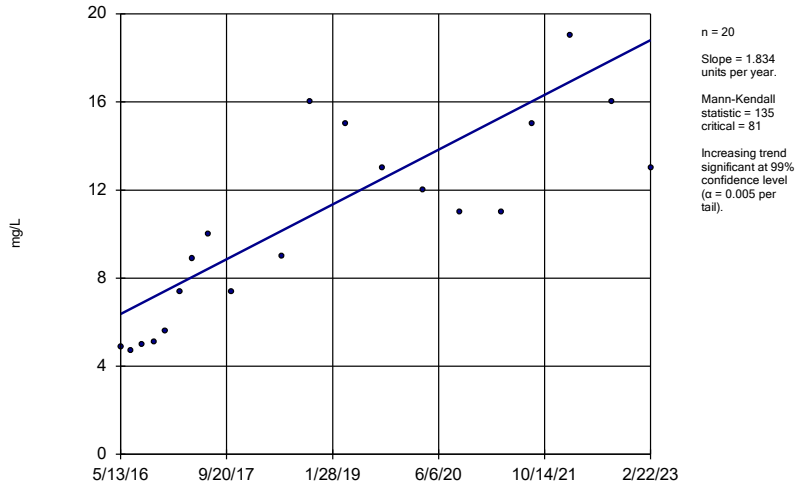
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-18



n = 20

Slope = 1.834 units per year.

Mann-Kendall statistic = 135
critical = 81

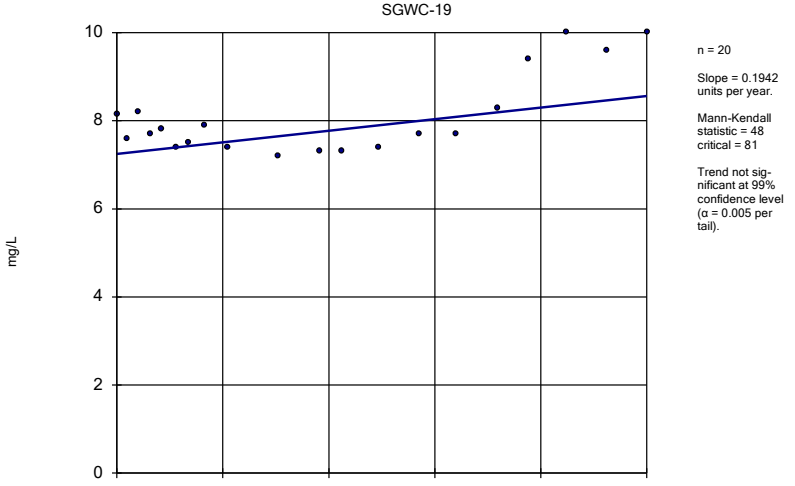
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-19



n = 20

Slope = 0.1942 units per year.

Mann-Kendall statistic = 48
critical = 81

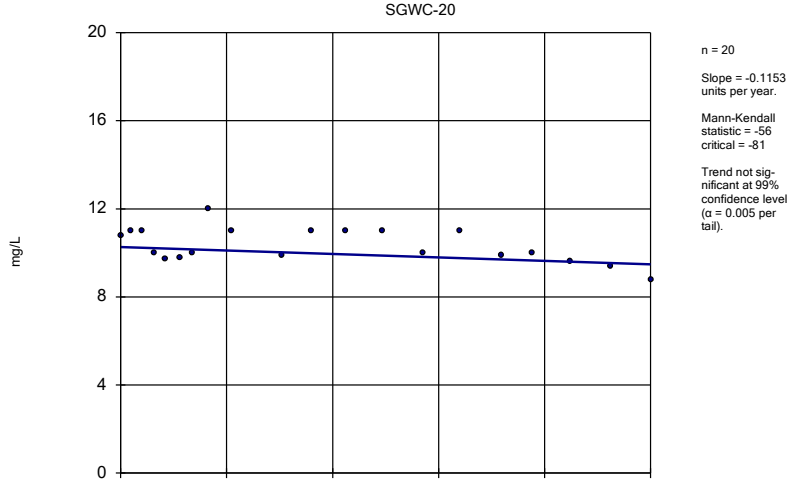
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-20



n = 20

Slope = -0.1153 units per year.

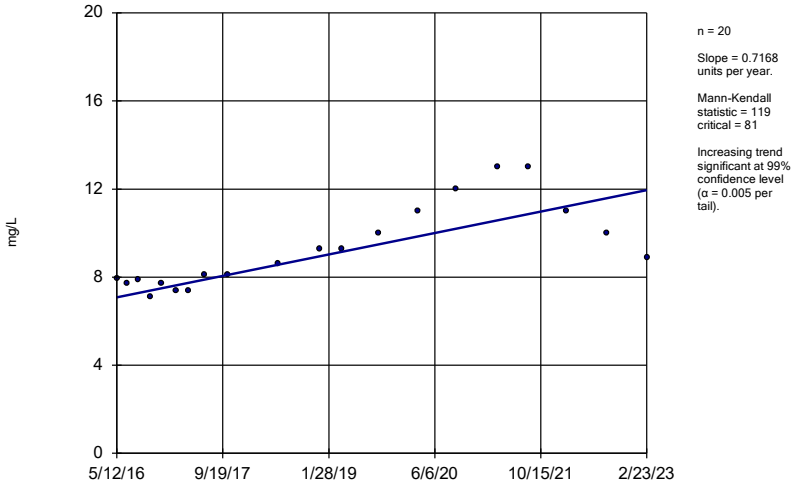
Mann-Kendall statistic = -56
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-21



n = 20

Slope = 0.7168 units per year.

Mann-Kendall statistic = 119 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

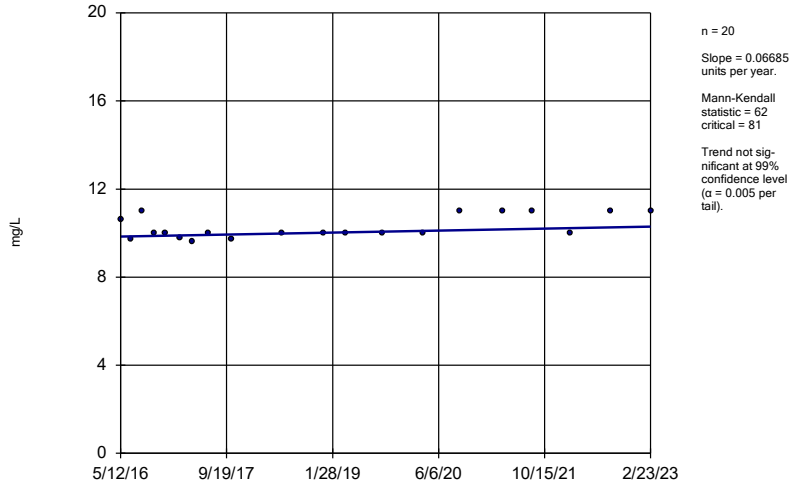
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-22



n = 20

Slope = 0.06685 units per year.

Mann-Kendall statistic = 62 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

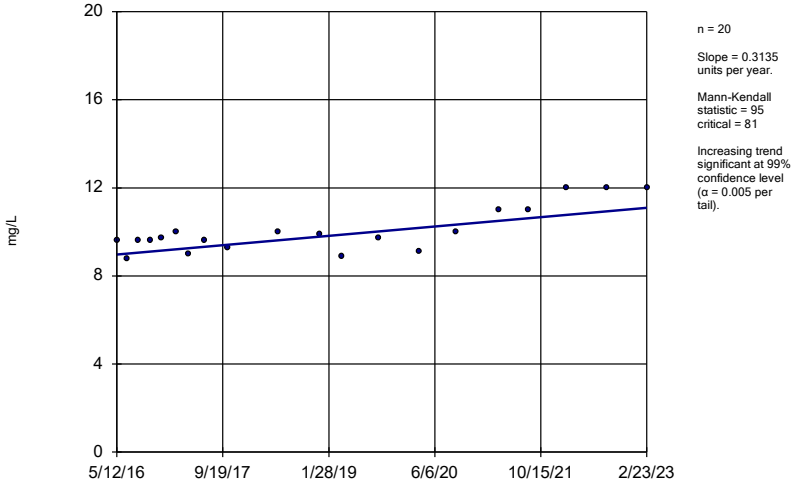
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-23



n = 20

Slope = 0.3135 units per year.

Mann-Kendall statistic = 95 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

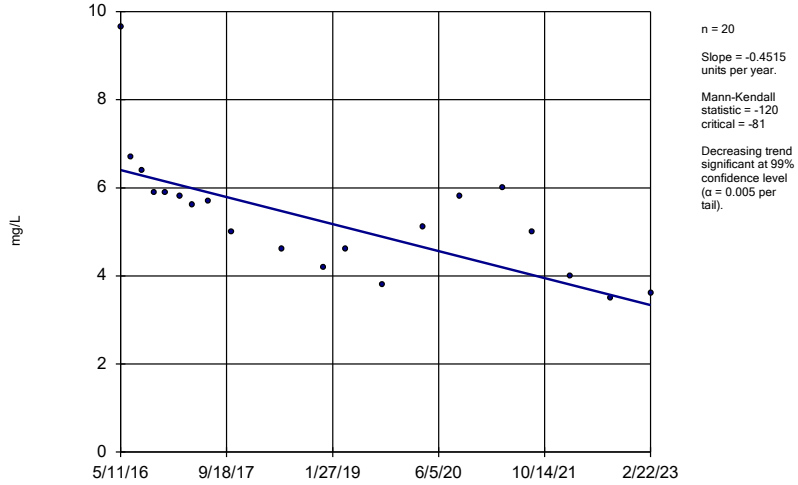
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-7



n = 20

Slope = -0.4515 units per year.

Mann-Kendall statistic = -120 critical = -81

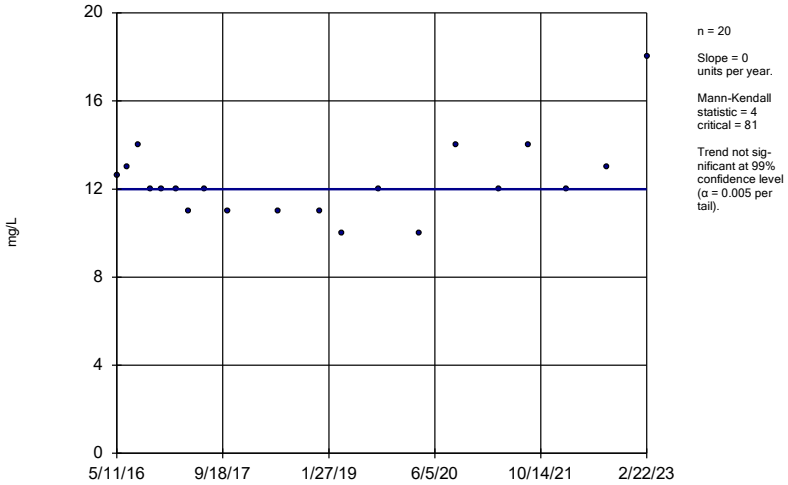
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-8



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

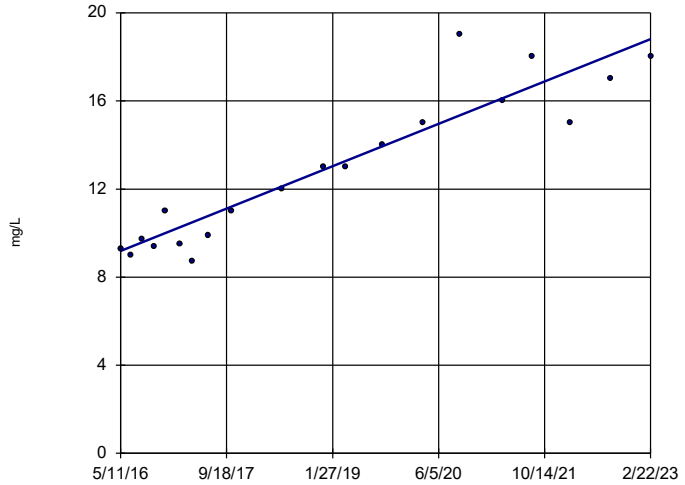
Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-9



n = 20

Slope = 1.416 units per year.

Mann-Kendall statistic = 148 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

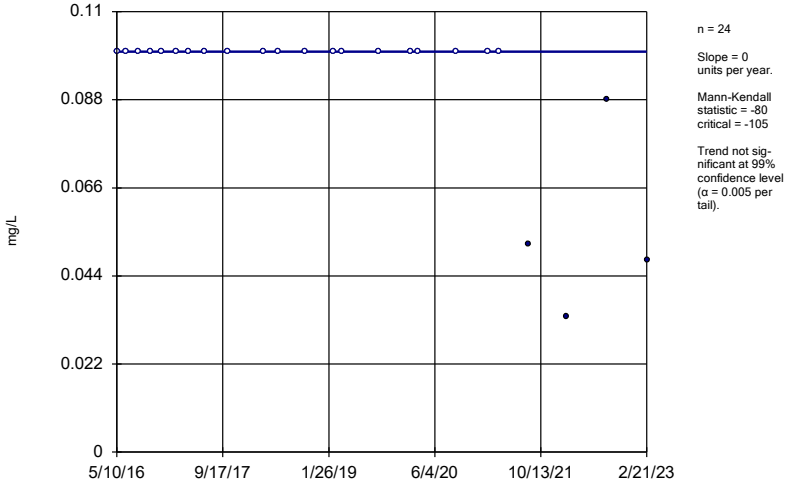
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-1 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -80 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

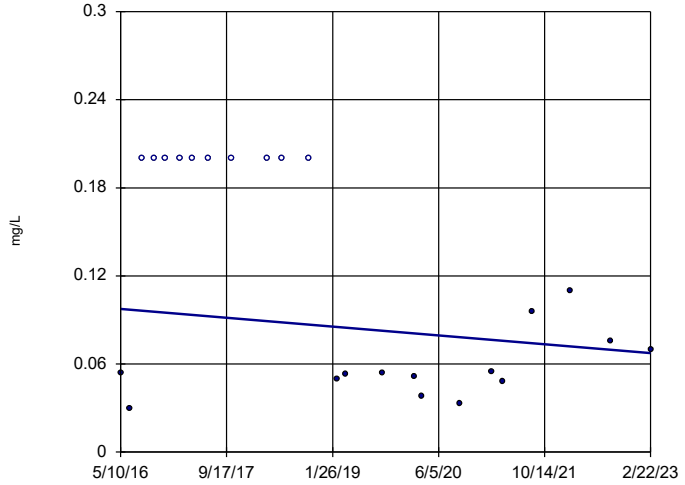
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-2 (bg)



n = 24

Slope = -0.004415 units per year.

Mann-Kendall statistic = -65 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

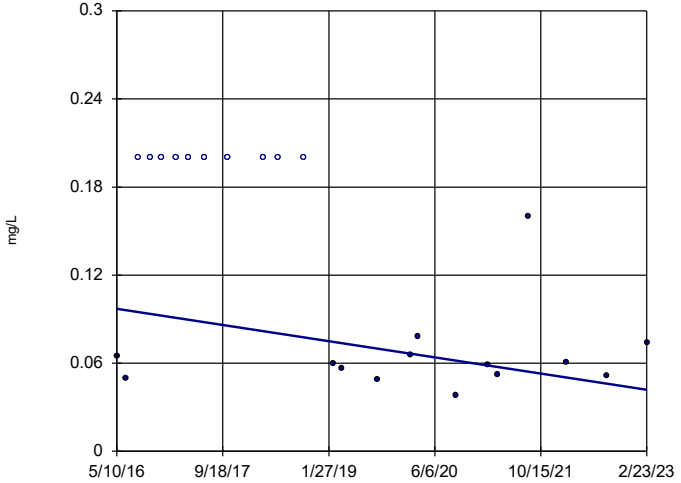
Constituent: Fluoride, total Analysis Run 5/8/2023 1:44 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-24 (bg)



n = 24

Slope = -0.008118 units per year.

Mann-Kendall statistic = -89
critical = -105

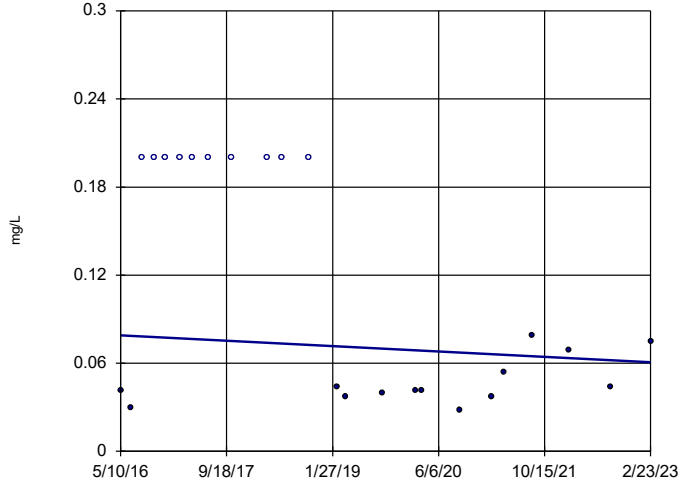
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-25 (bg)



n = 24

Slope = -0.002712 units per year.

Mann-Kendall statistic = -62
critical = -105

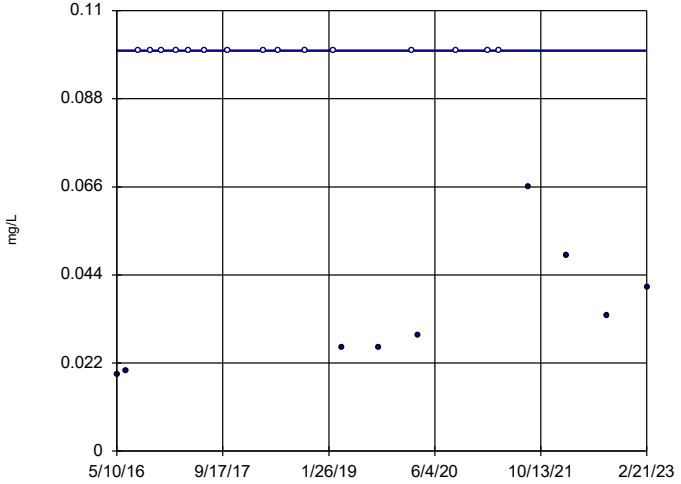
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-3 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -28
critical = -105

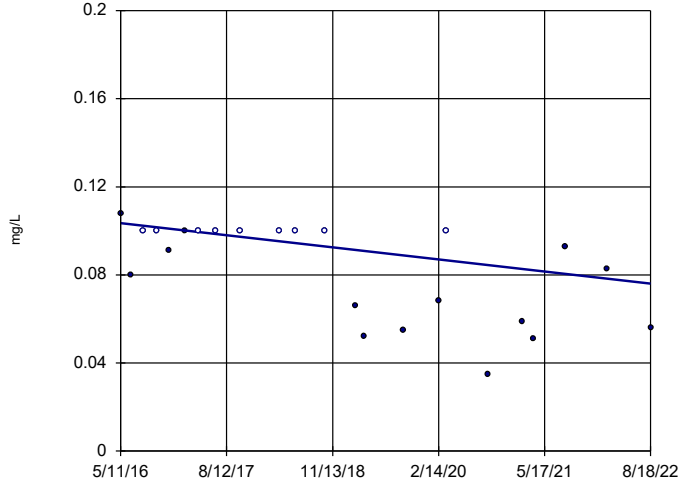
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-4 (bg)



n = 23

Slope = -0.004385 units per year.

Mann-Kendall statistic = -104
critical = -98

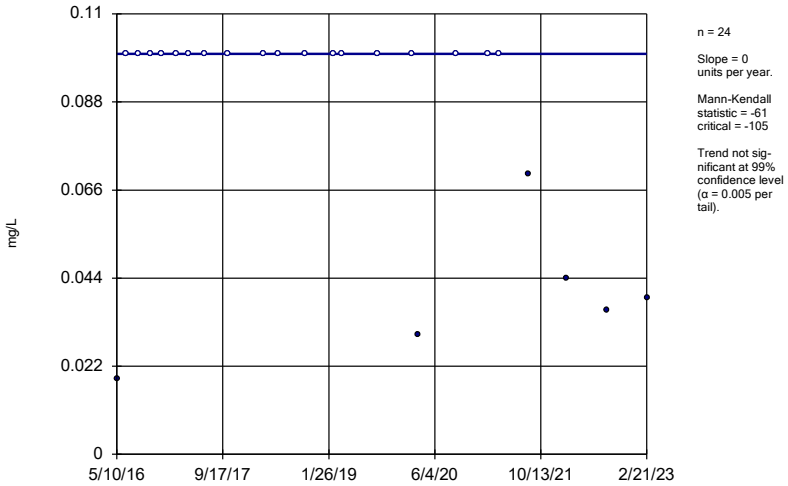
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-5 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -61
critical = -105

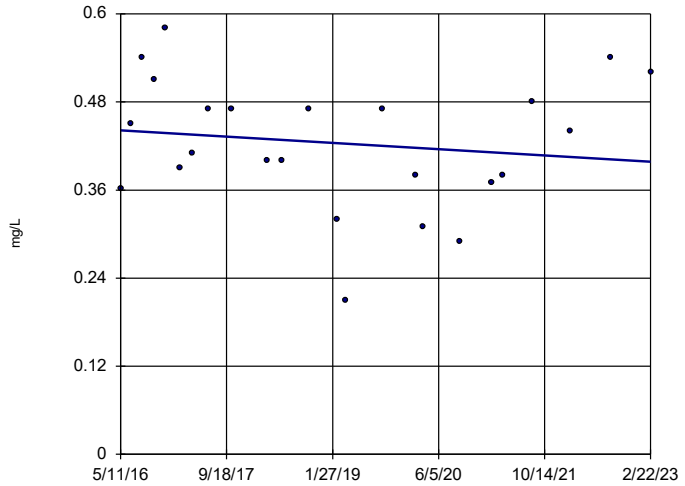
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-8



n = 24

Slope = -0.006342 units per year.

Mann-Kendall statistic = -21
critical = -105

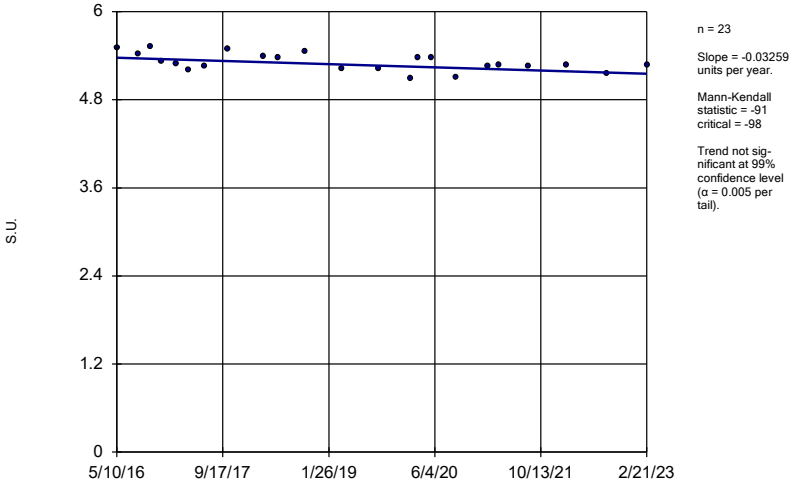
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-1 (bg)



n = 23

Slope = -0.03259 units per year.

Mann-Kendall statistic = -91
critical = -98

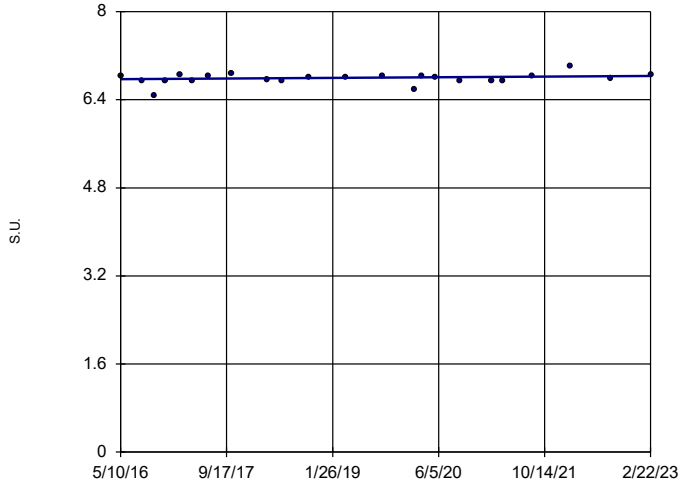
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-2 (bg)



n = 23

Slope = 0.008725 units per year.

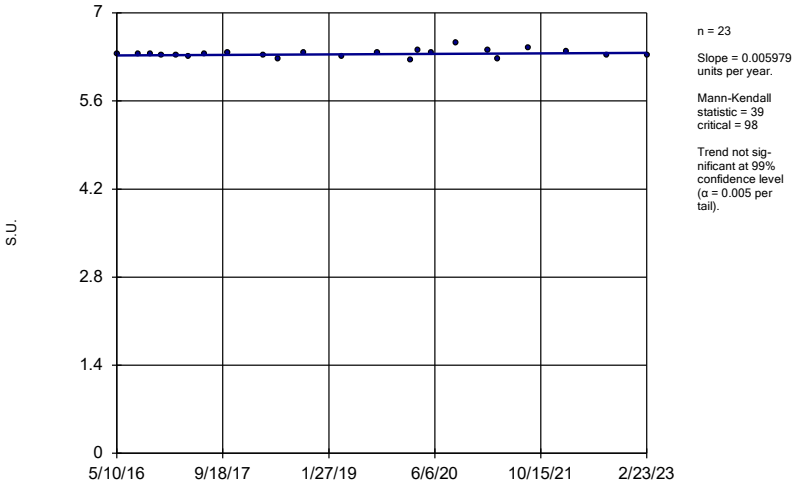
Mann-Kendall statistic = 38
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWA-24 (bg)



n = 23

Slope = 0.005979 units per year.

Mann-Kendall statistic = 39
critical = 98

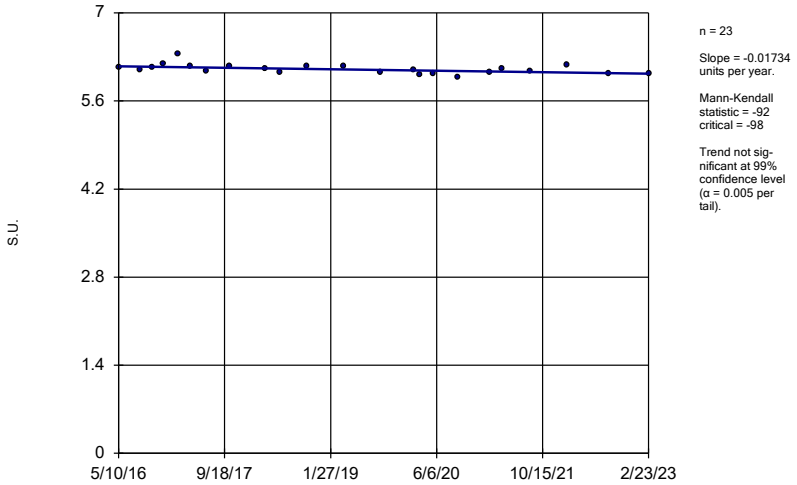
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-25 (bg)



n = 23

Slope = -0.01734 units per year.

Mann-Kendall statistic = -92
critical = -98

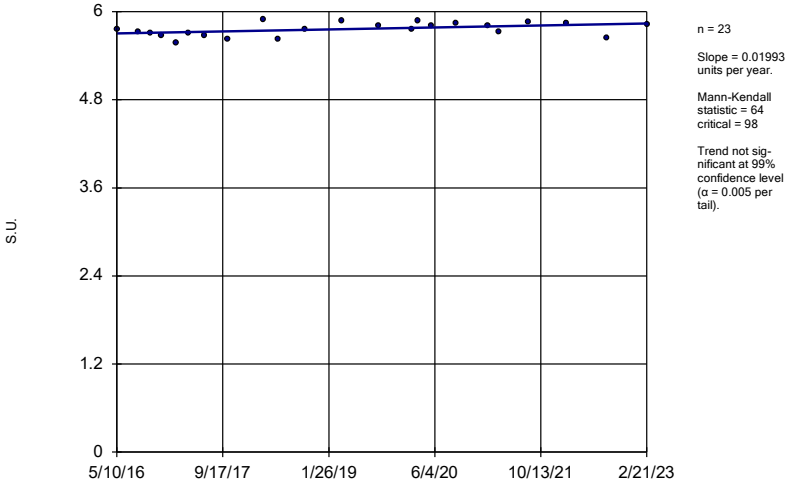
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-3 (bg)



n = 23

Slope = 0.01993 units per year.

Mann-Kendall statistic = 64
critical = 98

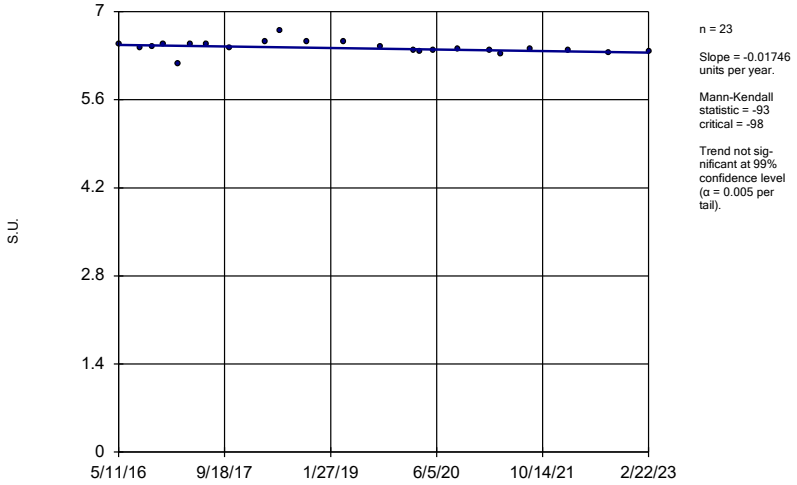
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-4 (bg)



n = 23

Slope = -0.01746 units per year.

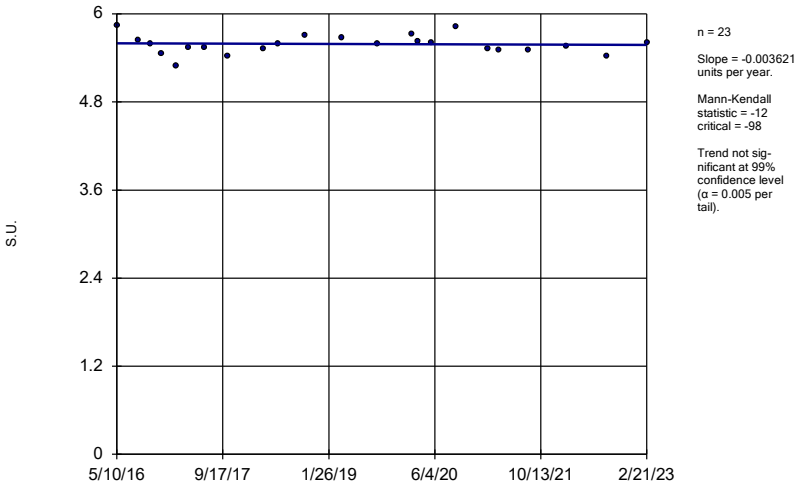
Mann-Kendall statistic = -93
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWA-5 (bg)



n = 23

Slope = -0.003621 units per year.

Mann-Kendall statistic = -12
critical = -98

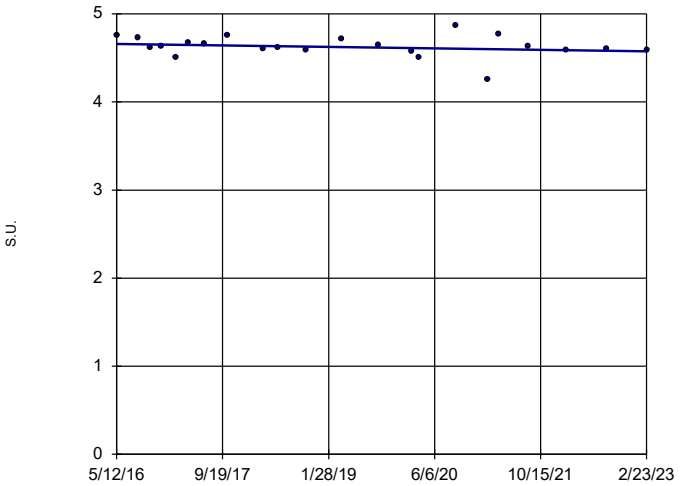
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-15



n = 22

Slope = -0.01198 units per year.

Mann-Kendall statistic = -53
critical = -92

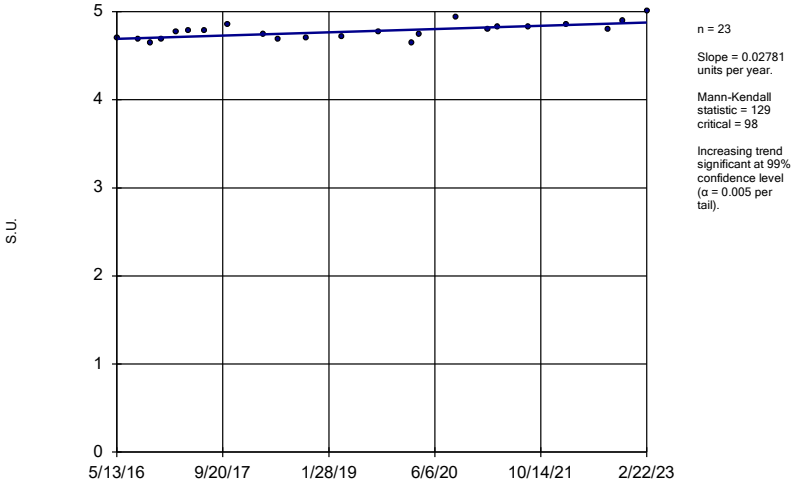
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-18



n = 23

Slope = 0.02781 units per year.

Mann-Kendall statistic = 129
critical = 98

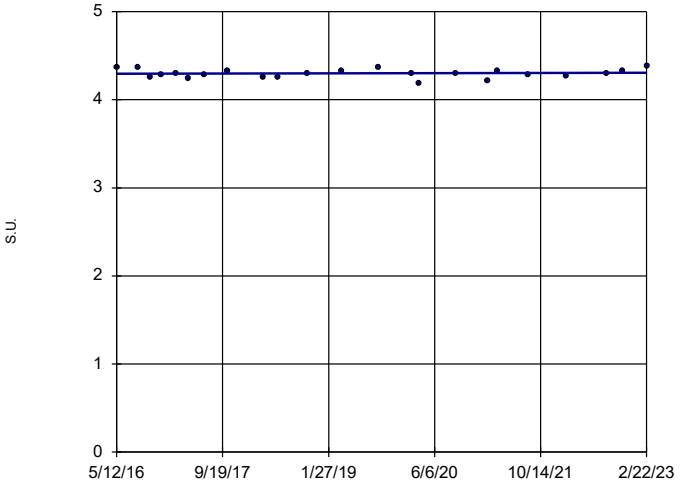
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-20



n = 23

Slope = 0.00188 units per year.

Mann-Kendall statistic = 19
critical = 98

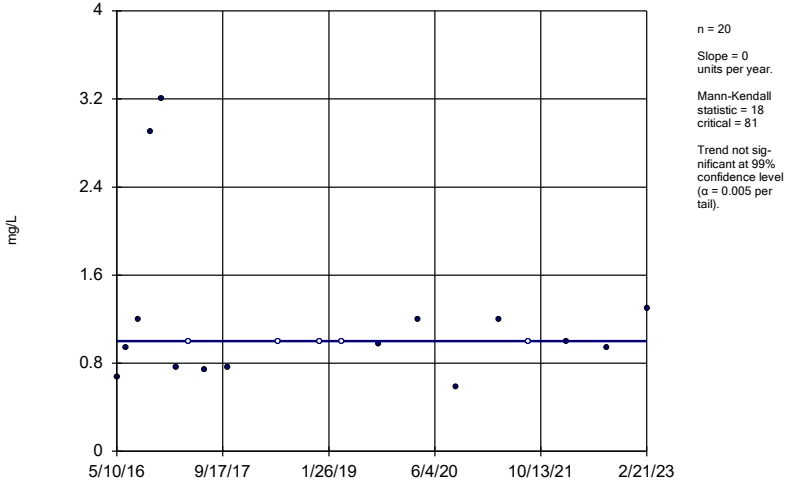
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-1 (bg)

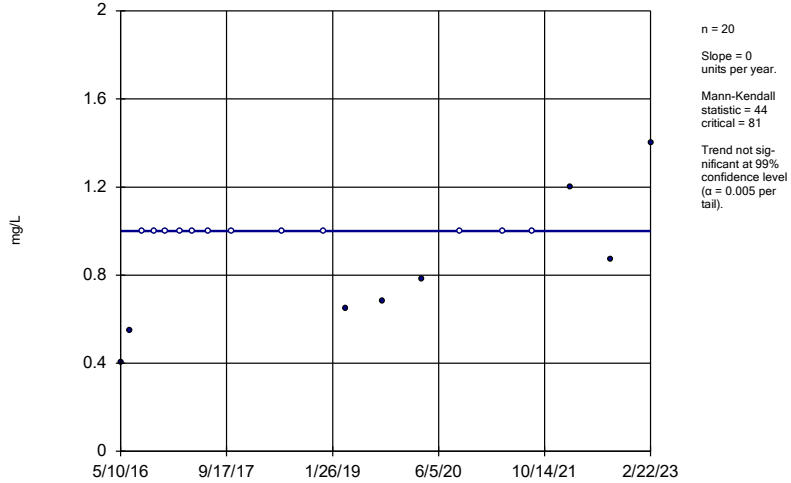


Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-2 (bg)

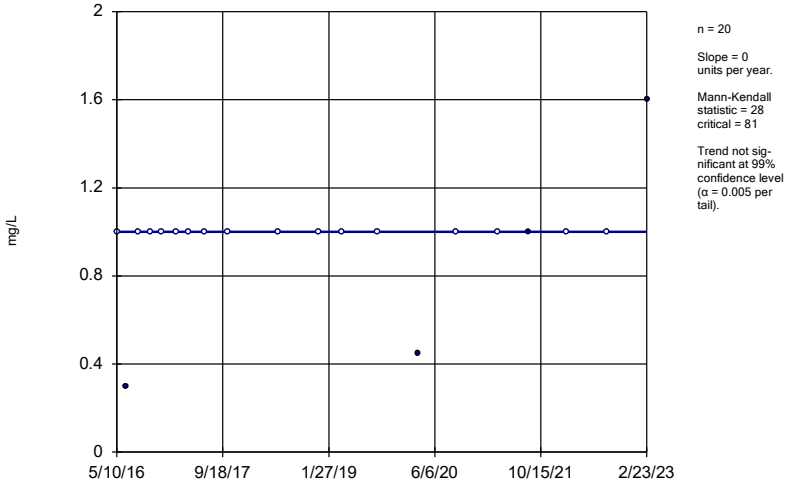


Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-24 (bg)

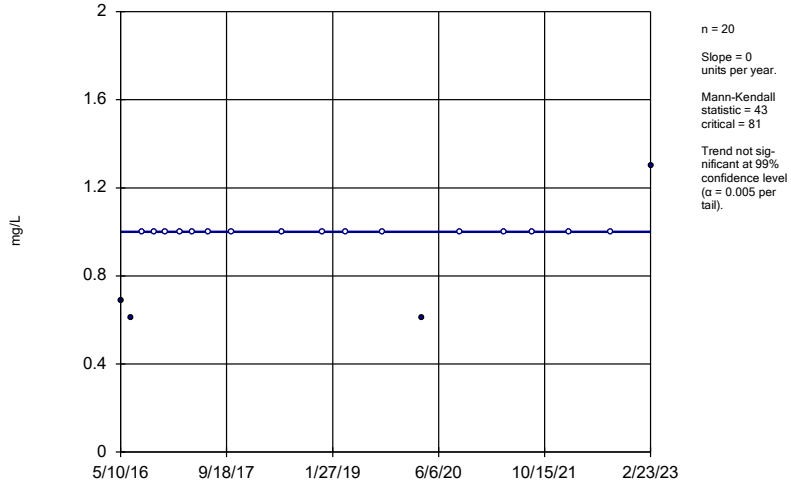


Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-25 (bg)

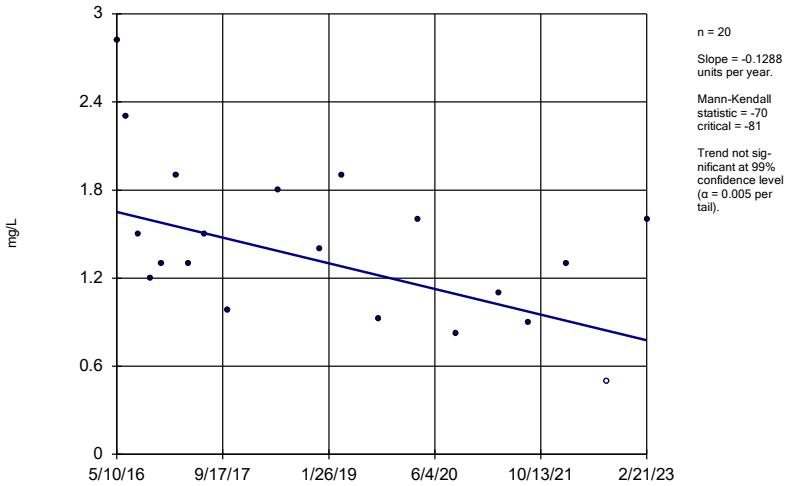


Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-3 (bg)



n = 20

Slope = -0.1288 units per year.

Mann-Kendall statistic = -70
critical = -81

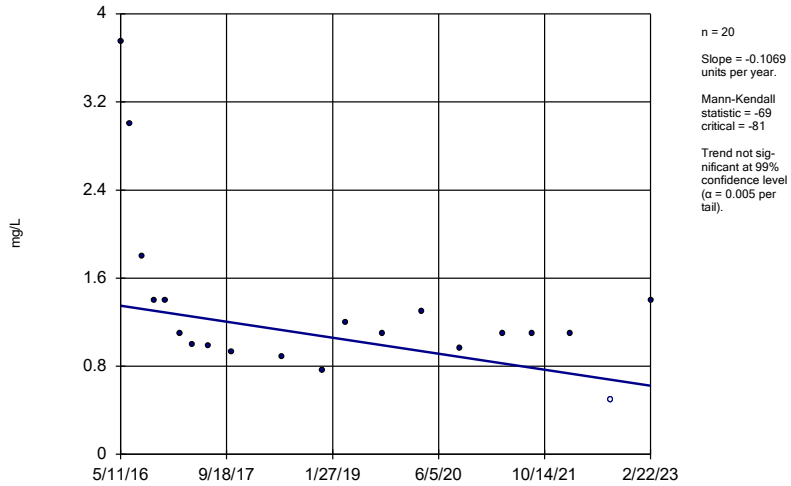
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-4 (bg)



n = 20

Slope = -0.1069 units per year.

Mann-Kendall statistic = -69
critical = -81

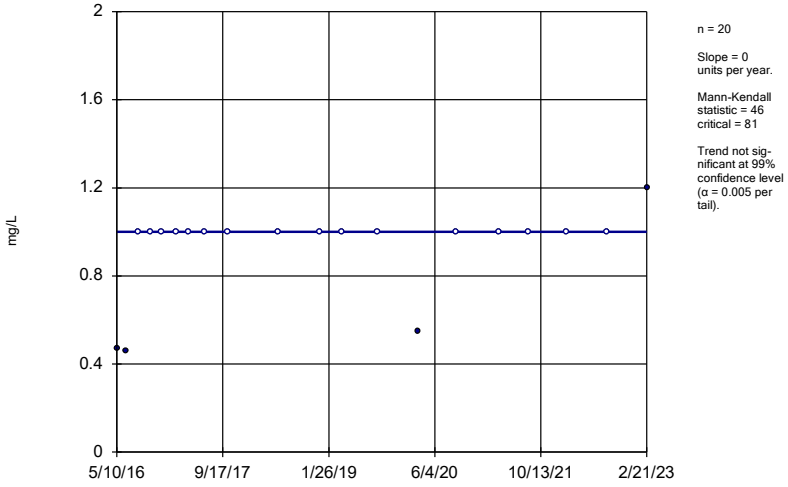
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-5 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 46
critical = 81

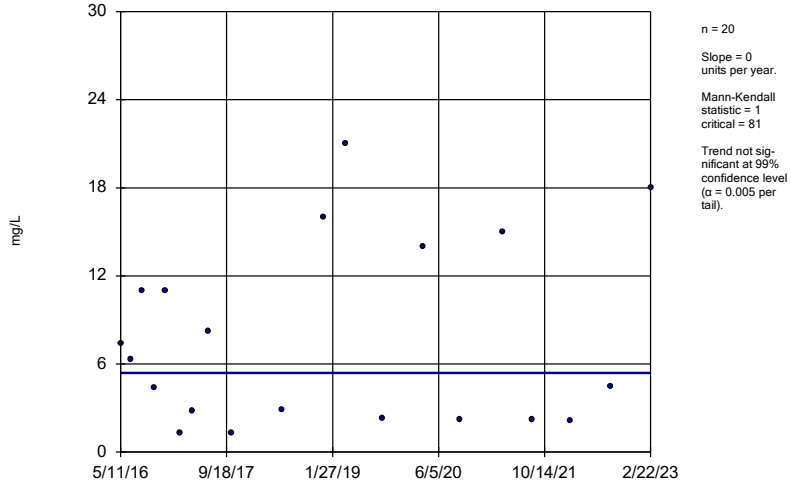
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-10



n = 20

Slope = 0 units per year.

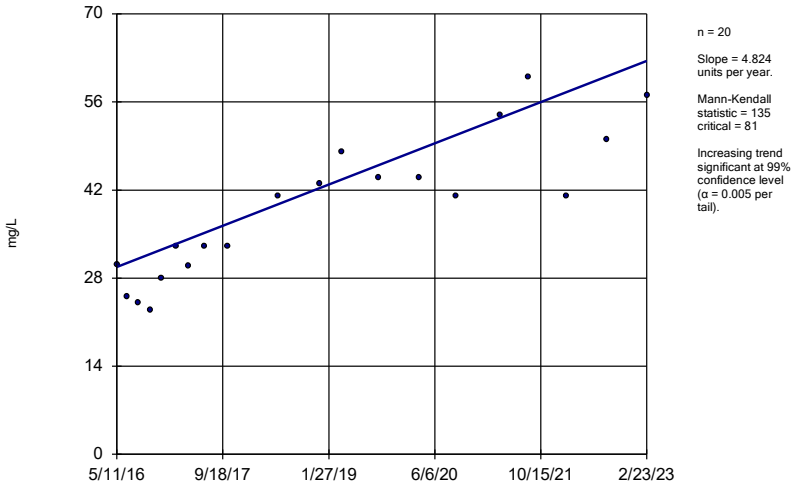
Mann-Kendall statistic = 1
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-12



n = 20

Slope = 4.824 units per year.

Mann-Kendall statistic = 135 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

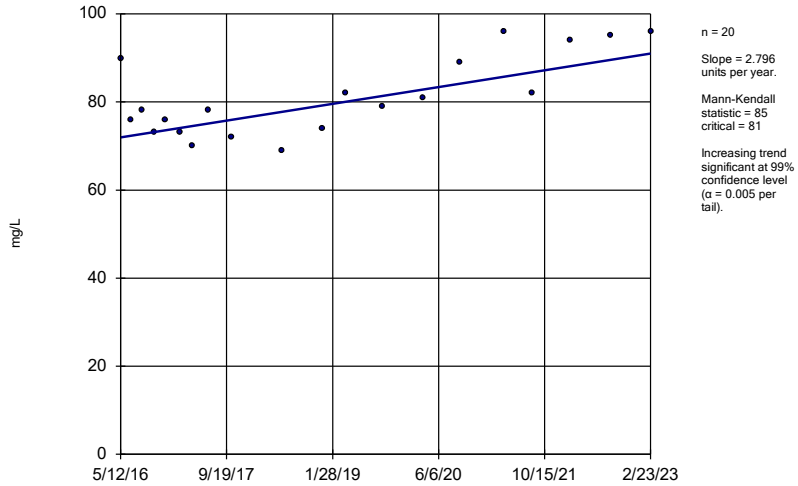
Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-13



n = 20

Slope = 2.796 units per year.

Mann-Kendall statistic = 85 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

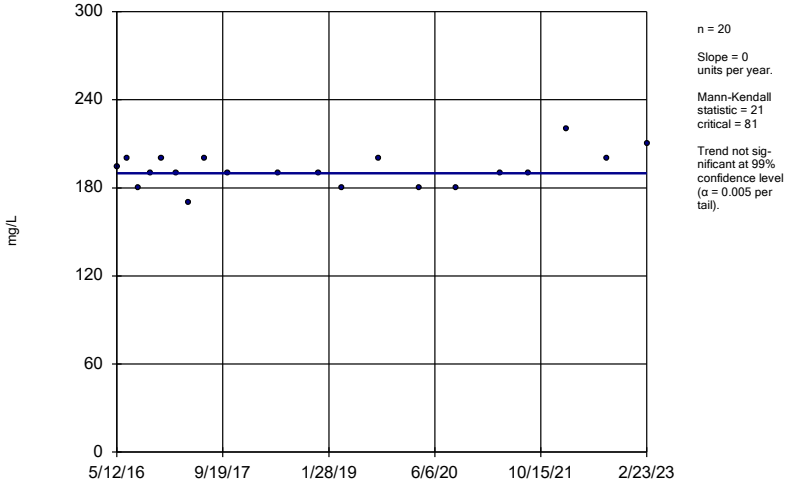
Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-14



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 21 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

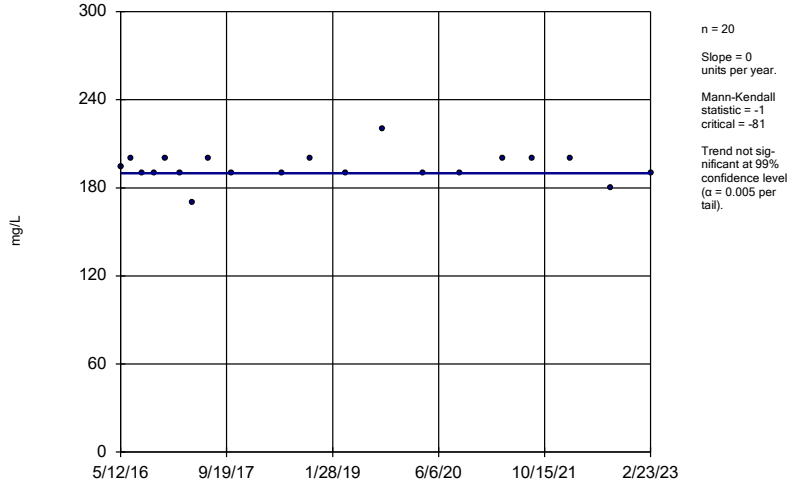
Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-15



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -1 critical = -81

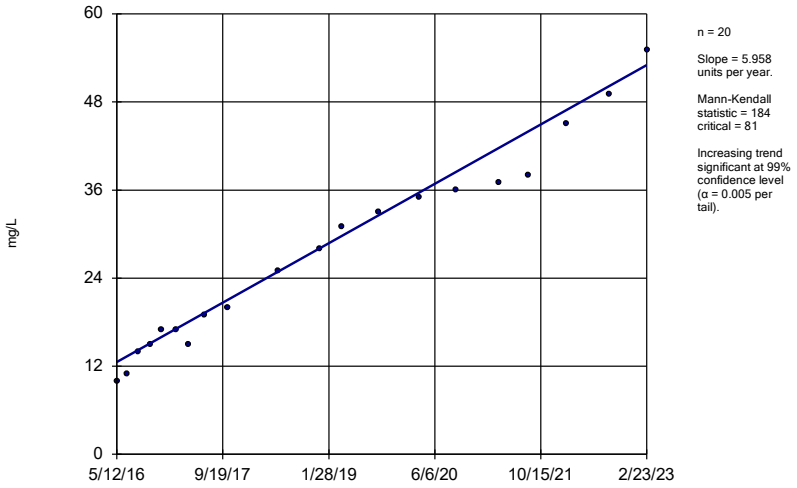
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-16



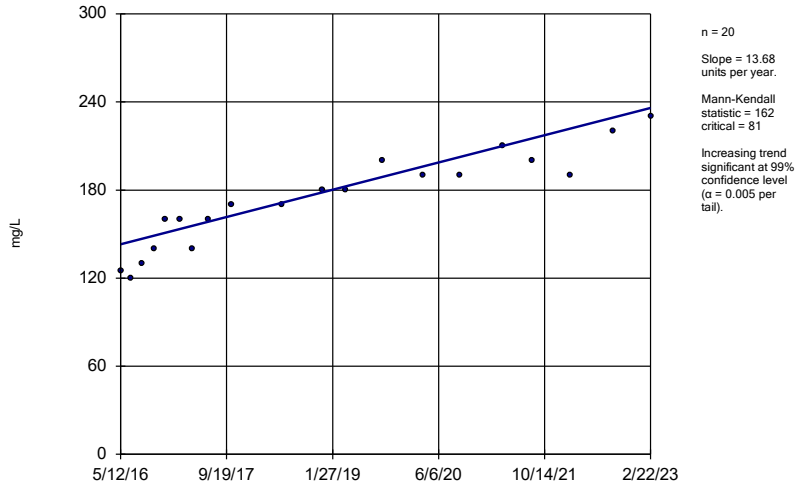
Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-17



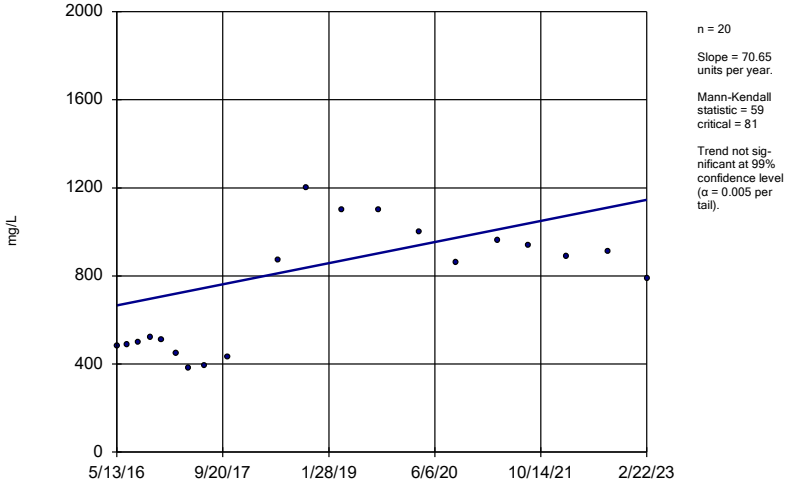
Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-18



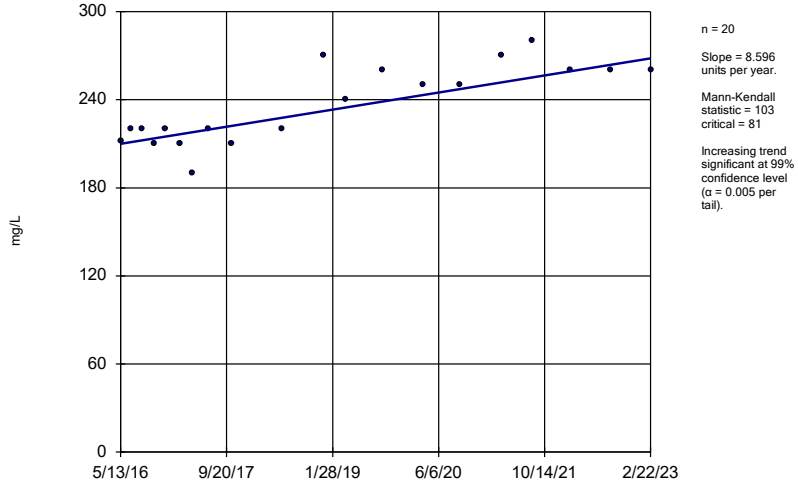
Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-19

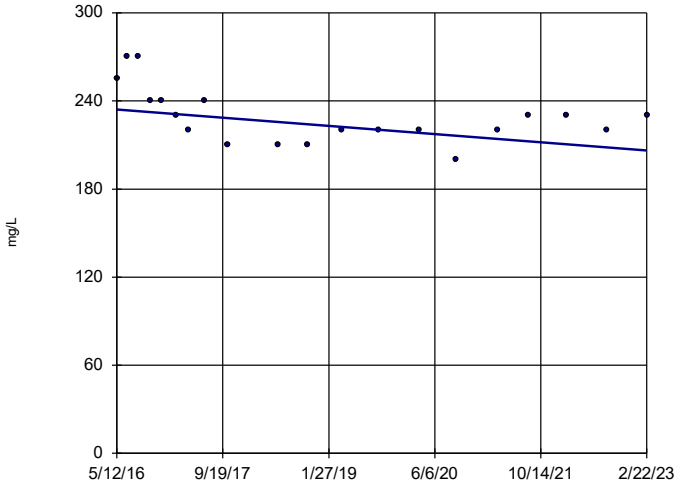


Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-20



n = 20

Slope = -4.112 units per year.

Mann-Kendall statistic = -64
critical = -81

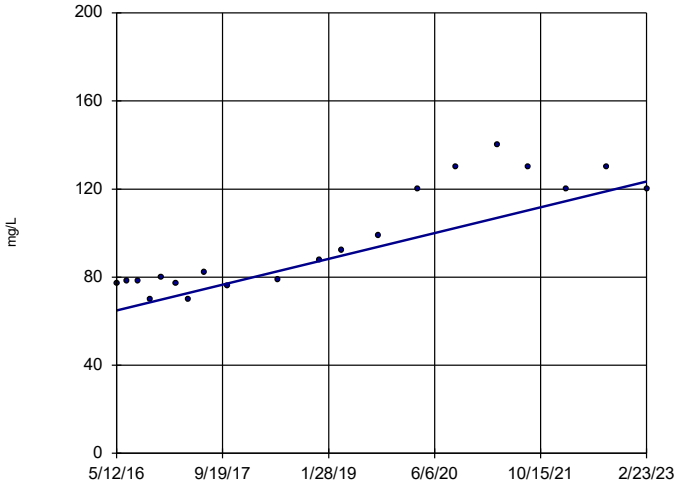
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-21



n = 20

Slope = 8.641 units per year.

Mann-Kendall statistic = 126
critical = 81

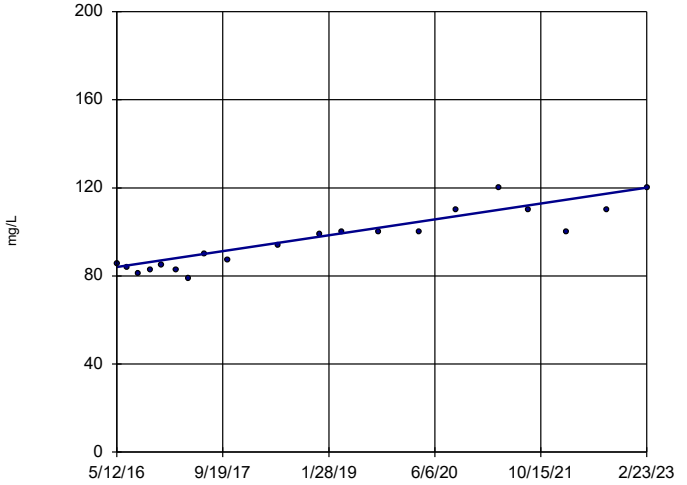
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-22



n = 20

Slope = 5.304 units per year.

Mann-Kendall statistic = 137
critical = 81

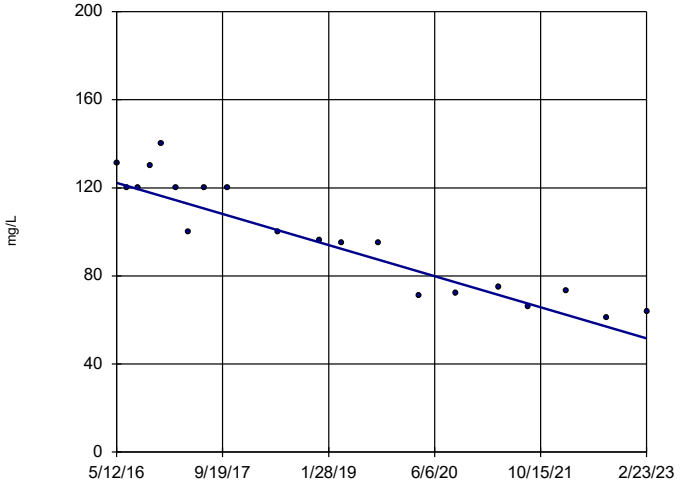
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-23



n = 20

Slope = -10.41 units per year.

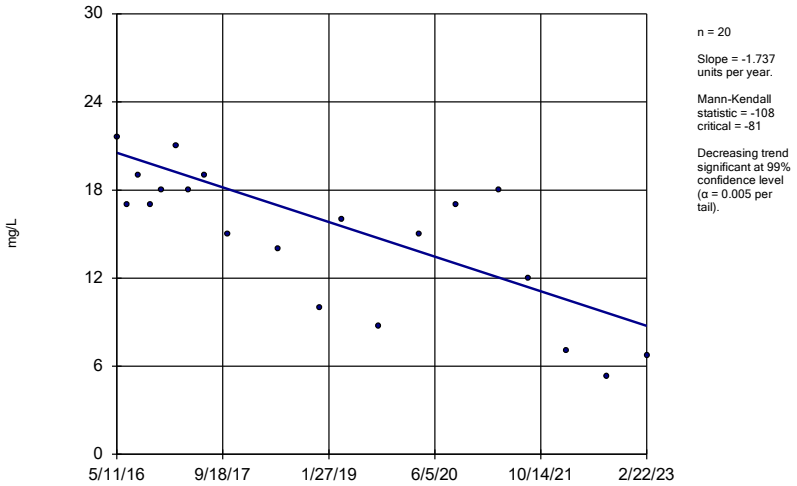
Mann-Kendall statistic = -148
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

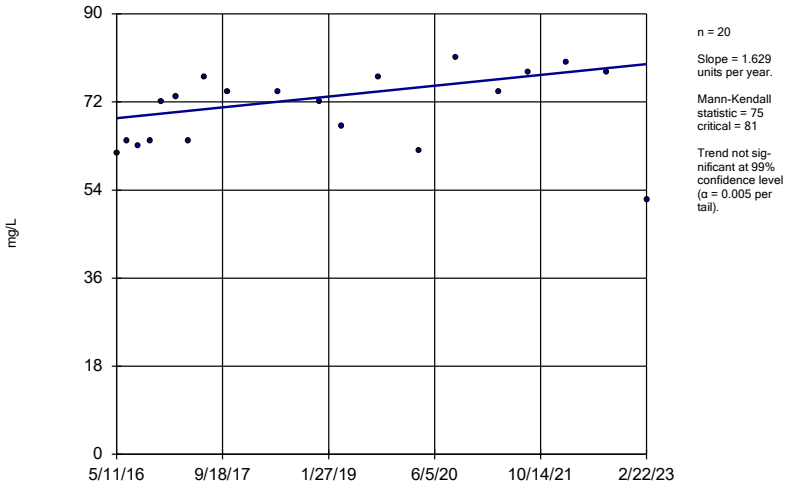
SGWC-7



Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

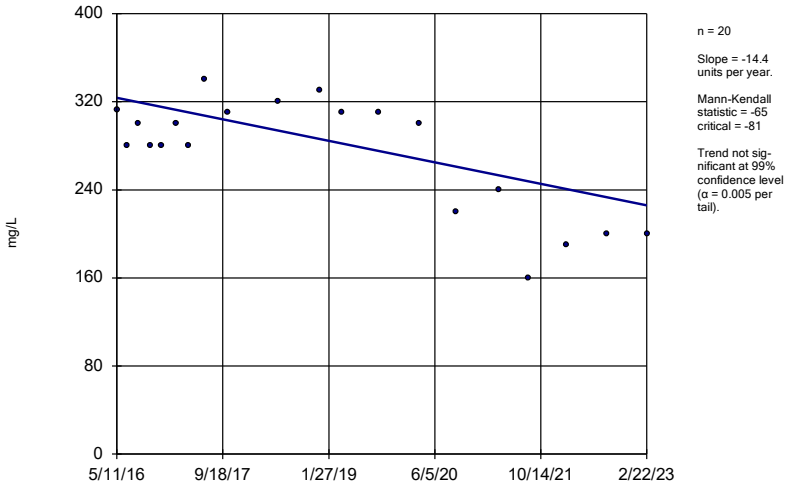
SGWC-8



Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-9

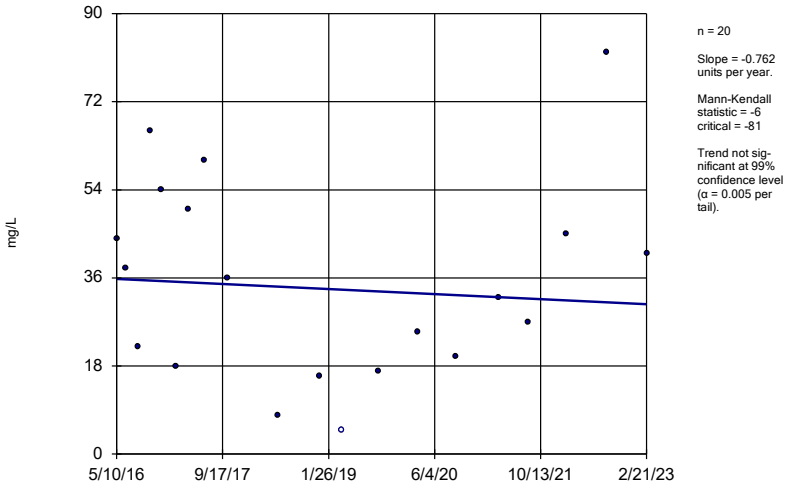


Constituent: Sulfate, total Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

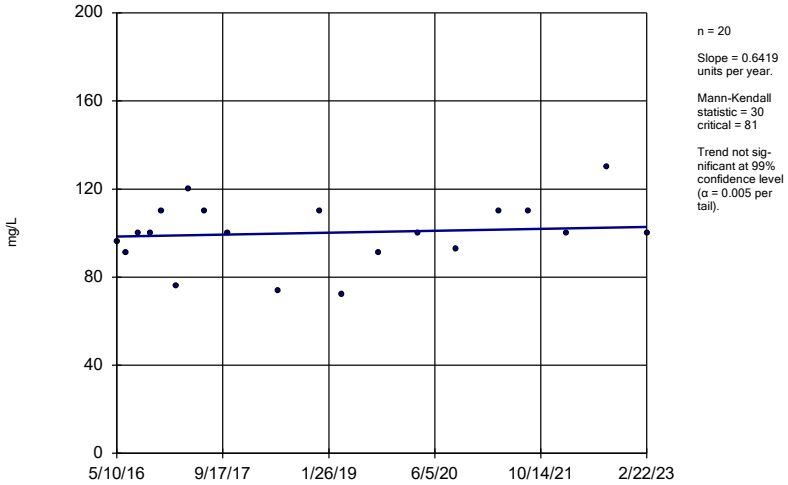
SGWA-1 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWA-2 (bg)



n = 20

Slope = 0.6419 units per year.

Mann-Kendall statistic = 30
critical = 81

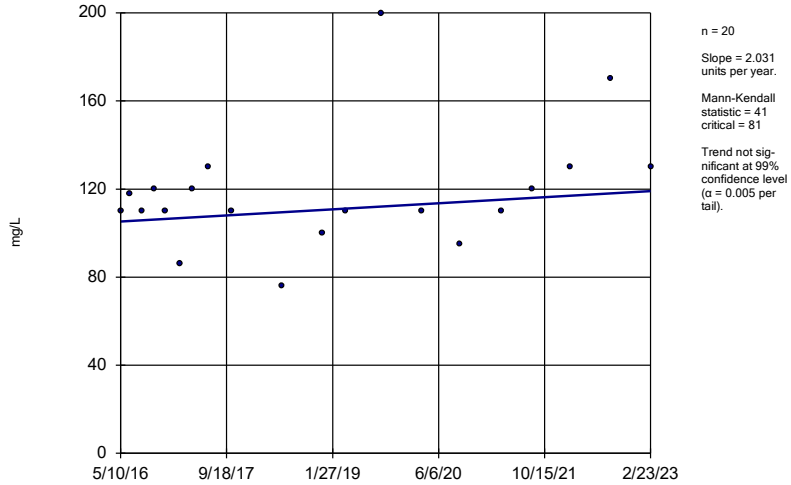
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-24 (bg)



n = 20

Slope = 2.031 units per year.

Mann-Kendall statistic = 41
critical = 81

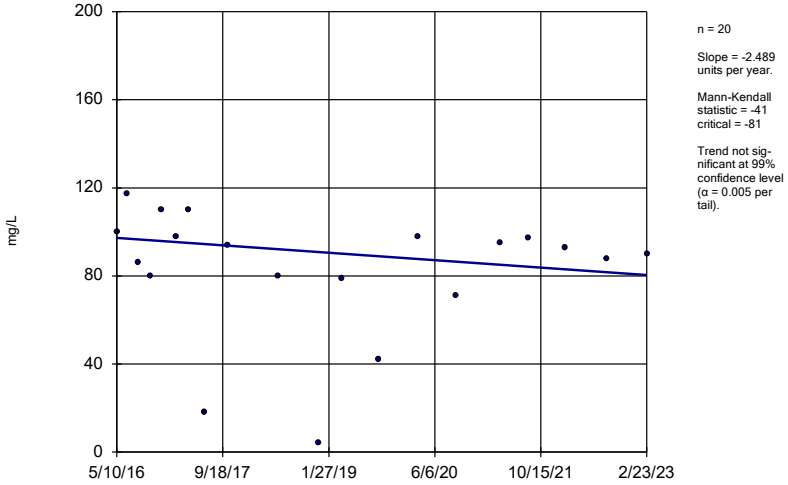
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-25 (bg)



n = 20

Slope = -2.489 units per year.

Mann-Kendall statistic = -41
critical = -81

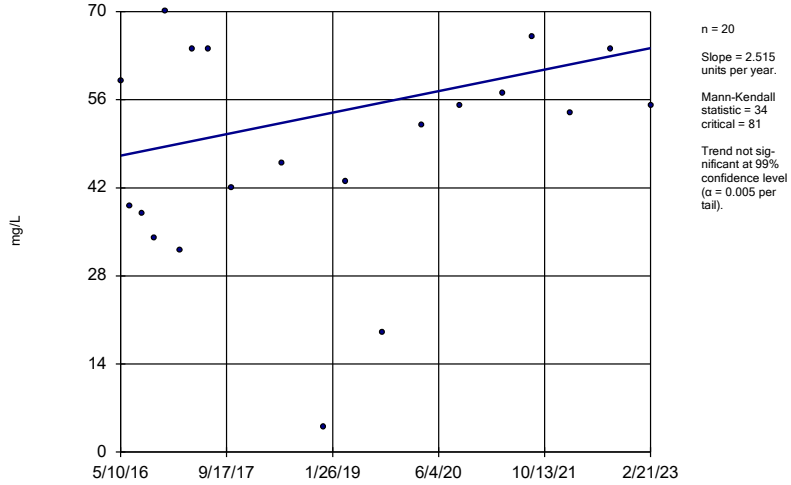
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-3 (bg)



n = 20

Slope = 2.515 units per year.

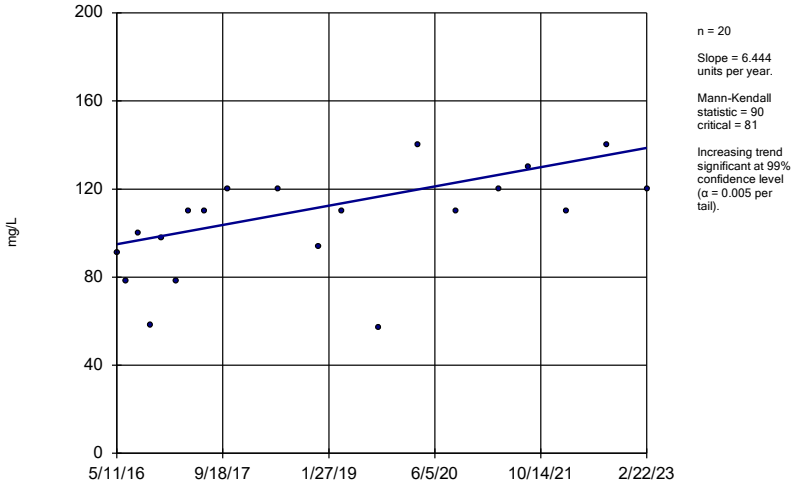
Mann-Kendall statistic = 34
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWA-4 (bg)



n = 20

Slope = 6.444 units per year.

Mann-Kendall statistic = 90 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

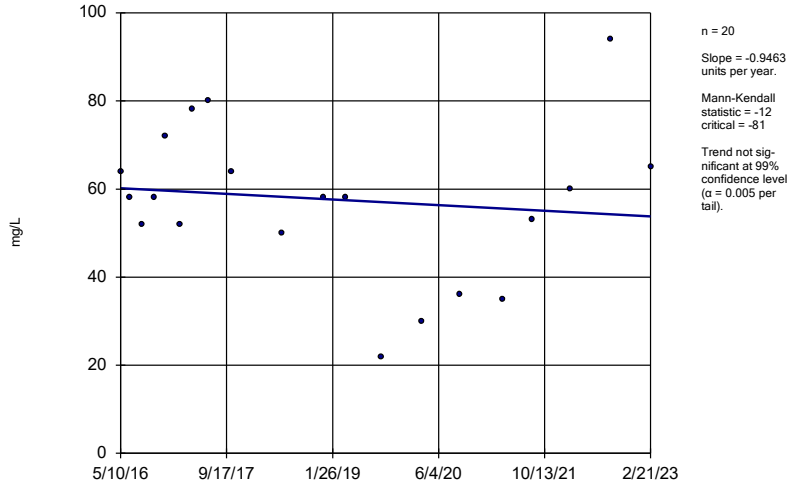
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-5 (bg)



n = 20

Slope = -0.9463 units per year.

Mann-Kendall statistic = -12 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

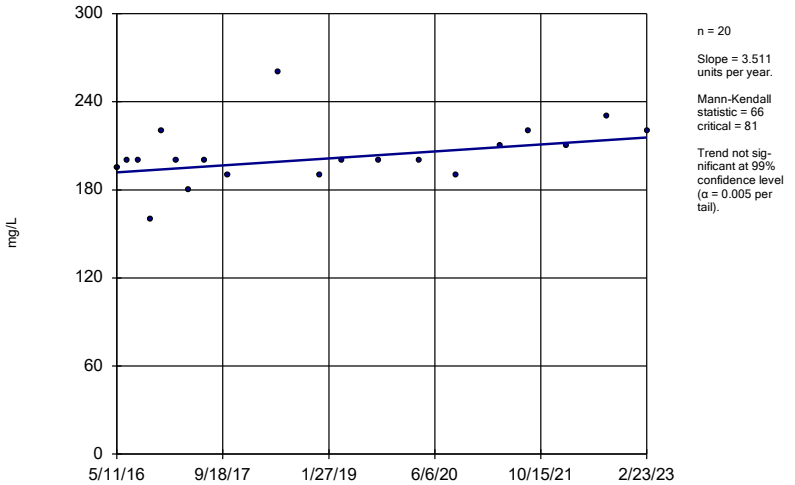
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-12



n = 20

Slope = 3.511 units per year.

Mann-Kendall statistic = 66 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

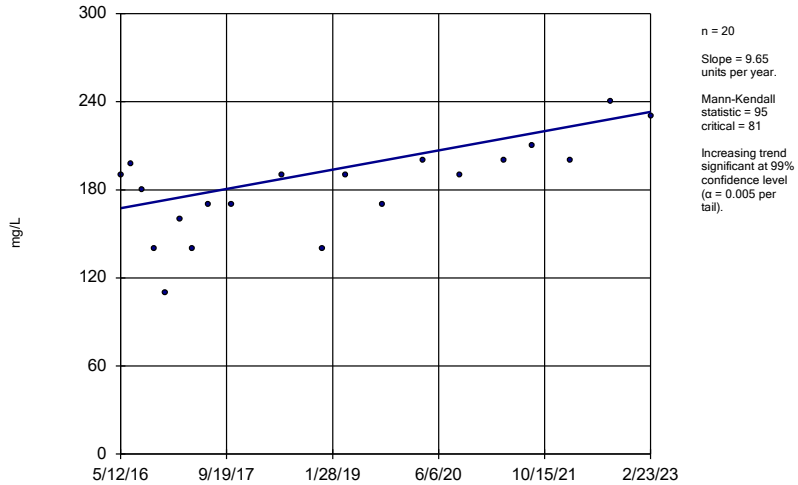
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test

Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-13



n = 20

Slope = 9.65 units per year.

Mann-Kendall statistic = 95 critical = 81

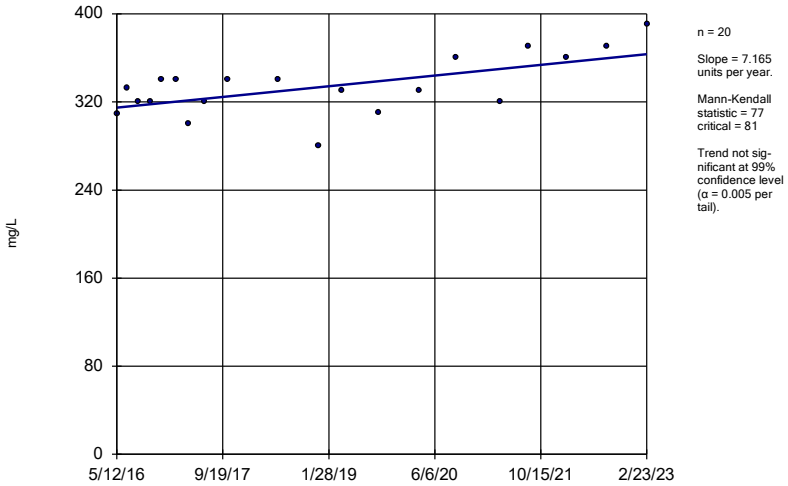
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test

Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-14



n = 20

Slope = 7.165 units per year.

Mann-Kendall statistic = 77
critical = 81

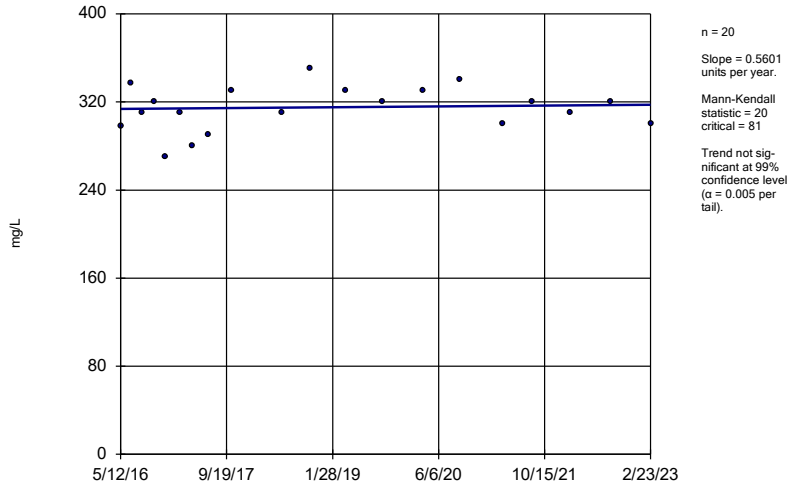
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-15



n = 20

Slope = 0.5601 units per year.

Mann-Kendall statistic = 20
critical = 81

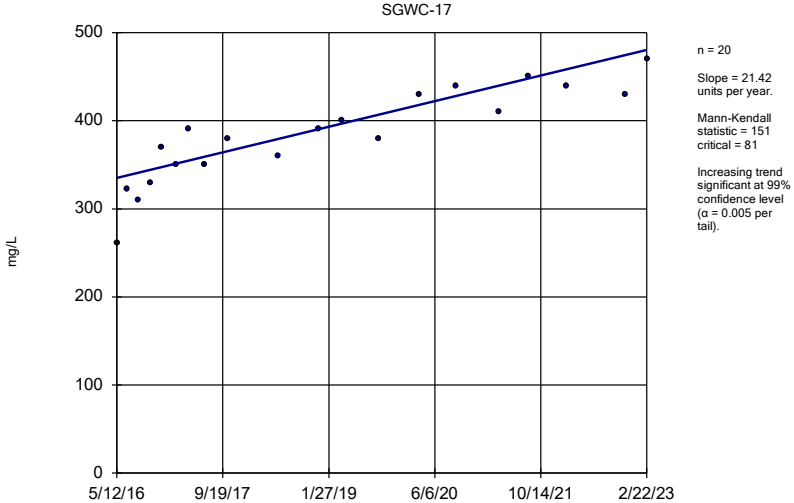
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-17



n = 20

Slope = 21.42 units per year.

Mann-Kendall statistic = 151
critical = 81

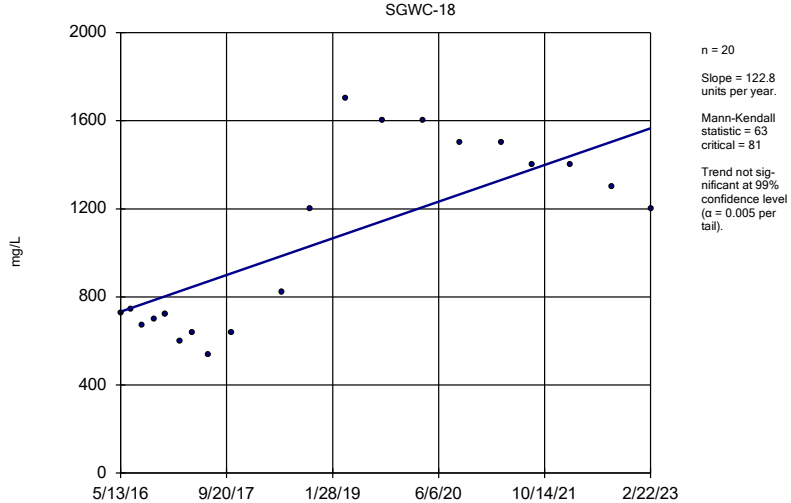
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-18



n = 20

Slope = 122.8 units per year.

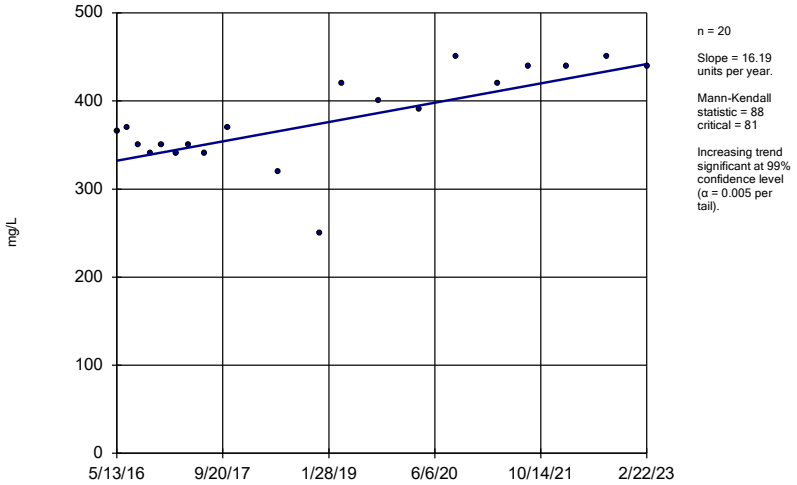
Mann-Kendall statistic = 63
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-19



n = 20

Slope = 16.19 units per year.

Mann-Kendall statistic = 88
critical = 81

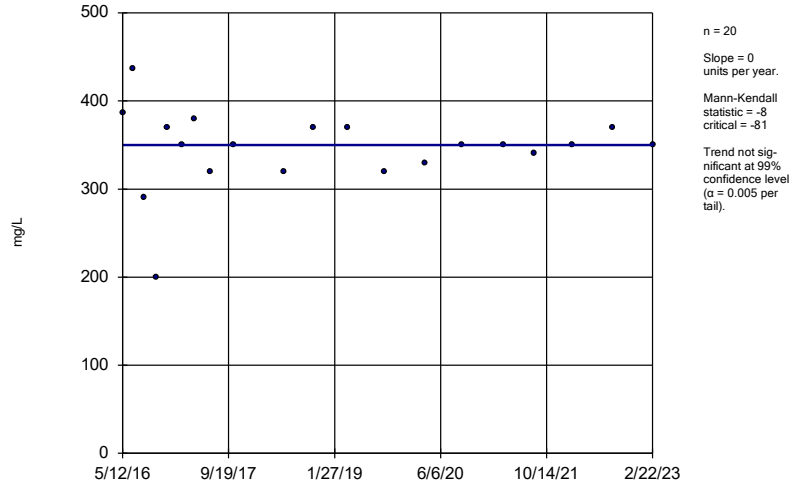
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-20



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -81

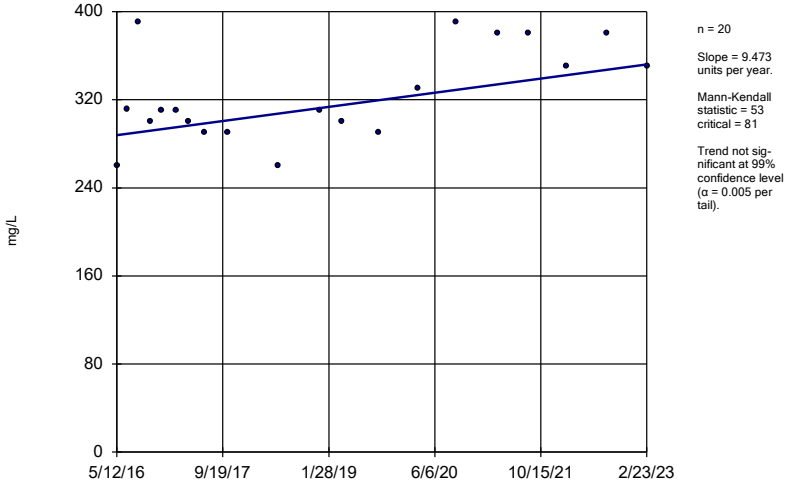
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-21



n = 20

Slope = 9.473 units per year.

Mann-Kendall statistic = 53
critical = 81

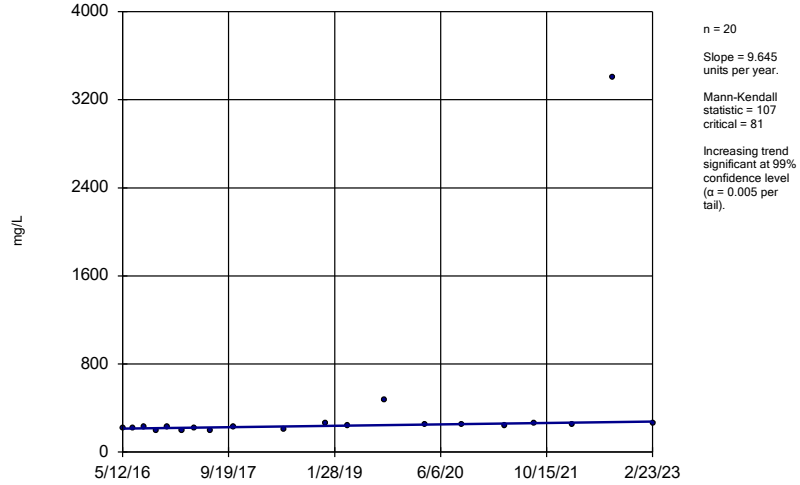
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-22



n = 20

Slope = 9.645 units per year.

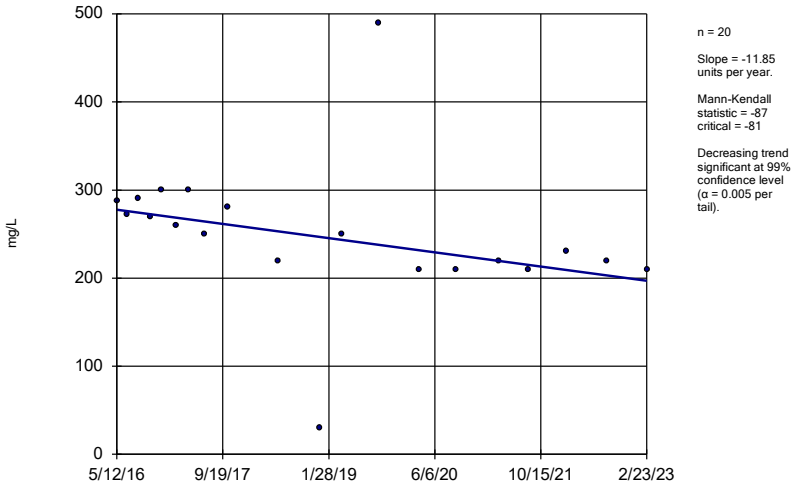
Mann-Kendall statistic = 107
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-23



n = 20

Slope = -11.85 units per year.

Mann-Kendall statistic = -87
critical = -81

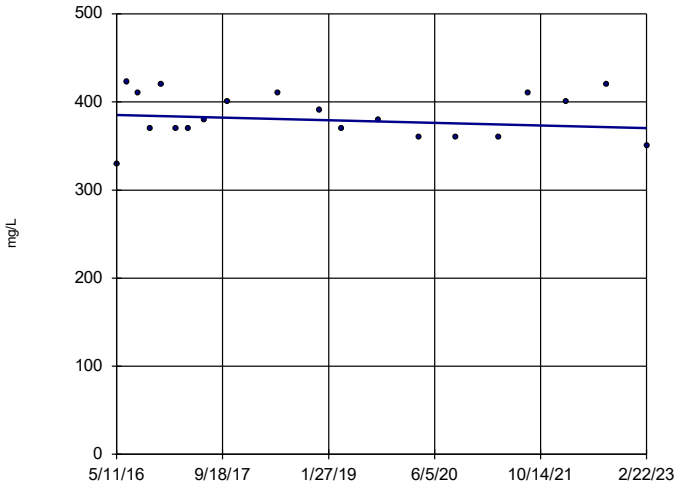
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-8



n = 20

Slope = -2.185 units per year.

Mann-Kendall statistic = -21
critical = -81

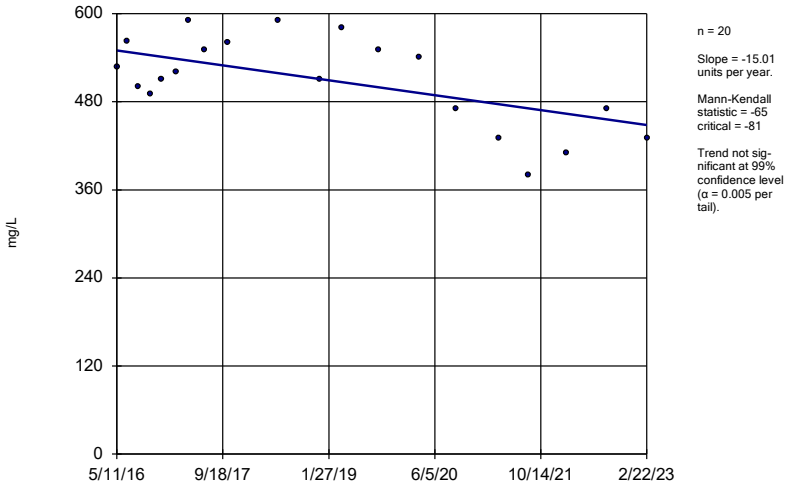
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-9



n = 20

Slope = -15.01 units per year.

Mann-Kendall statistic = -65
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/8/2023 1:45 PM View: Appendix III - Trend Test
Plant Scherer Client: Southern Company Data: Scherer AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0021	n/a	n/a	n/a	n/a	126	n/a	n/a	94.44	n/a	n/a	0.00156	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0015	n/a	n/a	n/a	n/a	161	n/a	n/a	86.34	n/a	n/a	0.0002591	NP Inter(NDs)
Barium (mg/L)	n/a	0.078	n/a	n/a	n/a	n/a	161	n/a	n/a	0	n/a	n/a	0.0002591	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	161	n/a	n/a	93.79	n/a	n/a	0.0002591	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	154	n/a	n/a	98.7	n/a	n/a	0.0003711	NP Inter(NDs)
Chromium (mg/L)	n/a	0.023	n/a	n/a	n/a	n/a	168	n/a	n/a	28.57	n/a	n/a	0.000181	NP Inter(normality)
Cobalt (mg/L)	n/a	0.02	n/a	n/a	n/a	n/a	161	n/a	n/a	64.6	n/a	n/a	0.0002591	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.54	n/a	n/a	n/a	n/a	161	n/a	n/a	0	n/a	n/a	0.0002591	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.16	n/a	n/a	n/a	n/a	167	n/a	n/a	55.09	n/a	n/a	0.0001905	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	161	n/a	n/a	93.17	n/a	n/a	0.0002591	NP Inter(NDs)
Lithium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	161	n/a	n/a	85.71	n/a	n/a	0.0002591	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	163	n/a	n/a	92.02	n/a	n/a	0.0002339	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	154	n/a	n/a	92.21	n/a	n/a	0.0003711	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	161	n/a	n/a	91.93	n/a	n/a	0.0002591	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	161	n/a	n/a	92.55	n/a	n/a	0.0002591	NP Inter(NDs)

FIGURE G.

SCHERER ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0021	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01
Barium, Total (mg/L)	2		0.078	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.023	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.54	5
Fluoride, Total (mg/L)	4		0.6	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.005	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level

**GWPS = Groundwater Protection Standard*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

FIGURE H.

Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**SGWC-10**	**0.03043**	**0.02186**	**0.02**	**Yes**	**23**	**0.02614**	**0.008197**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-11**	**0.02746**	**0.02097**	**0.02**	**Yes**	**23**	**0.02422**	**0.006208**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-15**	**0.2731**	**0.2549**	**0.02**	**Yes**	**23**	**0.264**	**0.01733**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-18**	**0.1487**	**0.1088**	**0.02**	**Yes**	**23**	**0.1288**	**0.03811**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-20**	**0.2089**	**0.152**	**0.02**	**Yes**	**23**	**0.1805**	**0.05443**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	SGWC-10	0.002	0.0014	0.006	No	17	0.001965	0.0001455	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-13	0.002	0.0004	0.006	No	17	0.001906	0.0003881	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-18	0.002	0.0012	0.006	No	16	0.00195	0.0002	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-19	0.0021	0.002	0.006	No	17	0.002006	0.00002425	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-20	0.002	0.0019	0.006	No	16	0.001994	0.000025	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-21	0.002	0.0019	0.006	No	17	0.001994	0.00002425	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-22	0.0022	0.002	0.006	No	17	0.002012	0.00004851	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-23	0.002	0.00098	0.006	No	17	0.00194	0.0002474	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-7	0.002	0.0004	0.006	No	17	0.001906	0.0003881	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-39S	0.0019	0.00028	0.01	No	4	0.001045	0.0006634	50	None	No	0.0625	NP (selected)
Arsenic (mg/L)	PZ-42I	0.001	0.00049	0.01	No	4	0.0008725	0.000255	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	23	0.0009491	0.0001392	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.00103	0.001	0.01	No	23	0.001005	0.00009448	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-12	0.001	0.00091	0.01	No	23	0.000903	0.0002341	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	23	0.0009757	0.0001563	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	23	0.0009761	0.0001703	78.26	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.00142	0.0009042	0.01	No	23	0.001293	0.0004664	17.39	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	23	0.0009313	0.0001852	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001	0.00075	0.01	No	23	0.0009207	0.0001719	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.003094	0.001841	0.01	No	23	0.002467	0.001198	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	23	0.0009678	0.0001077	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.0008289	0.0004932	0.01	No	23	0.0009313	0.0004224	39.13	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	23	0.0009896	0.00005004	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.00089	0.01	No	23	0.0008665	0.0002532	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	23	0.0009739	0.00009059	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	23	0.0009348	0.0001742	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.0009	0.01	No	23	0.0008991	0.0001882	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.001	0.01	No	23	0.000903	0.0001991	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00079	0.01	No	23	0.0008817	0.0002101	60.87	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-17I	0.06553	0.05197	2	No	4	0.05875	0.002986	0	None	No	0.01	Param.
Barium (mg/L)	PZ-39S	0.06094	0.01106	2	No	4	0.036	0.01098	0	None	No	0.01	Param.
Barium (mg/L)	PZ-40I	0.1083	0.004234	2	No	4	0.05625	0.02291	0	None	No	0.01	Param.
Barium (mg/L)	PZ-41S	0.059	0.025	2	No	4	0.034	0.01667	0	None	No	0.0625	NP (normality)
Barium (mg/L)	PZ-42I	0.1	0.052	2	No	4	0.065	0.02341	0	None	No	0.0625	NP (normality)
Barium (mg/L)	PZ-43S	0.1385	0.03697	2	No	4	0.08775	0.02237	0	None	No	0.01	Param.
Barium (mg/L)	PZ-44I	0.014	0.0078	2	No	4	0.009425	0.003051	0	None	No	0.0625	NP (normality)
Barium (mg/L)	SGWC-10	0.03245	0.02796	2	No	23	0.0302	0.004285	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.04296	0.03872	2	No	23	0.04084	0.004048	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.057	0.036	2	No	23	0.04676	0.01028	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-13	0.03477	0.02841	2	No	23	0.03159	0.006077	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.05779	0.04958	2	No	23	0.05369	0.00785	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.03722	0.03074	2	No	23	0.03398	0.006195	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.0278	0.02123	2	No	23	0.02451	0.006276	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-17	0.02355	0.01956	2	No	23	0.02156	0.003814	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.02256	0.01501	2	No	23	0.01927	0.007602	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	SGWC-19	0.03944	0.0318	2	No	23	0.03562	0.007302	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03257	0.02432	2	No	23	0.02844	0.007882	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.1056	0.09344	2	No	23	0.1	0.01233	0	None	ln(x)	0.01	Param.
Barium (mg/L)	SGWC-22	0.0894	0.07965	2	No	23	0.08453	0.009314	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.08164	0.06737	2	No	23	0.0745	0.01364	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-6	0.1129	0.07299	2	No	23	0.09297	0.0382	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.2902	0.247	2	No	23	0.2686	0.04127	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.1894	0.1667	2	No	23	0.1785	0.02227	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	SGWC-9	0.06506	0.05354	2	No	23	0.0593	0.01101	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	23	0.002403	0.0004671	95.65	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	23	0.002314	0.0006171	91.3	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00046	0.00037	0.004	No	23	0.0005178	0.0002966	13.04	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-17	0.0025	0.00028	0.004	No	23	0.002403	0.0004629	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-18	0.0025	0.00035	0.004	No	23	0.001468	0.001103	52.17	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	23	0.001996	0.0009776	78.26	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0007974	0.000648	0.004	No	23	0.0007227	0.0001428	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-22	0.0025	0.00033	0.004	No	23	0.002406	0.0004525	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	23	0.0024	0.0004796	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	23	0.002304	0.0006499	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-11	0.0025	0.00022	0.005	No	22	0.002396	0.0004861	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	22	0.002305	0.0006353	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.00027	0.005	No	22	0.001102	0.001082	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	SGWC-18	0.0025	0.00035	0.005	No	22	0.001884	0.001031	72.73	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	22	0.002403	0.0004562	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	22	0.002282	0.000705	90.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	22	0.002404	0.0004499	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	22	0.002396	0.0004861	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	22	0.0024	0.0004669	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-17I	0.00545	0.00275	0.1	No	4	0.0041	0.0005944	0	None	No	0.01	Param.
Chromium (mg/L)	PZ-39S	0.03	0.0027	0.1	No	4	0.01868	0.01281	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	PZ-41S	0.007952	0.001698	0.1	No	4	0.004825	0.00159	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	PZ-42I	0.003	0.002	0.1	No	4	0.00225	0.0005	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	PZ-43S	0.002	0.002	0.1	No	4	0.002	4.7e-11	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	PZ-44I	0.0046	0.002	0.1	No	4	0.00265	0.0013	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	23	0.002013	0.00006255	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	23	0.001987	0.00006255	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-14	0.0026	0.0019	0.1	No	23	0.002083	0.00105	69.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03461	0.03221	0.1	No	23	0.03341	0.002288	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01173	0.00999	0.1	No	23	0.01086	0.001667	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-17	0.007387	0.004739	0.1	No	23	0.006063	0.002531	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.01006	0.007644	0.1	No	23	0.009083	0.002722	0	None	ln(x)	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01557	0.01419	0.1	No	23	0.01488	0.001323	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	23	0.001961	0.000235	91.3	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.002	0.1	No	23	0.001917	0.0002229	73.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0022	0.0015	0.1	No	23	0.001878	0.0004033	65.22	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0017	0.001317	0.1	No	23	0.001796	0.0003496	39.13	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	SGWC-7	0.0026	0.002	0.1	No	23	0.002026	0.0001251	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0016	0.1	No	22	0.001886	0.0004291	59.09	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-13S	0.006738	0.005095	0.02	No	6	0.005917	0.0005981	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-14S	0.0004952	0.000173	0.02	No	5	0.000746	0.0009853	20	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-39S	0.0025	0.00028	0.02	No	6	0.001432	0.001173	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	PZ-40I	0.0076	0.0014	0.02	No	4	0.0036	0.002741	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	PZ-41S	0.005514	0.000317	0.02	No	6	0.002338	0.003376	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-42I	0.0064	0.00061	0.02	No	4	0.002677	0.002604	25	None	No	0.0625	NP (selected)
Cobalt (mg/L)	PZ-43S	0.0086	0.00025	0.02	No	6	0.002887	0.002957	50	None	No	0.0155	NP (selected)
Cobalt (mg/L)	PZ-44I	0.002764	0.001236	0.02	No	4	0.002	0.0003367	0	None	No	0.01	Param.
Cobalt (mg/L)	**SGWC-10**	**0.03043**	**0.02186**	**0.02**	**Yes**	**23**	**0.02614**	**0.008197**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**SGWC-11**	**0.02746**	**0.02097**	**0.02**	**Yes**	**23**	**0.02422**	**0.006208**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	SGWC-12	0.003696	0.002232	0.02	No	23	0.002964	0.0014	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.005973	0.002727	0.02	No	23	0.004909	0.003711	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01088	0.006802	0.02	No	23	0.008841	0.0039	0	None	No	0.01	Param.
Cobalt (mg/L)	**SGWC-15**	**0.2731**	**0.2549**	**0.02**	**Yes**	**23**	**0.264**	**0.01733**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	SGWC-16	0.004498	0.003644	0.02	No	23	0.004071	0.0008159	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.00078	0.00041	0.02	No	23	0.0008489	0.0007859	17.39	None	No	0.01	NP (normality)
Cobalt (mg/L)	**SGWC-18**	**0.1487**	**0.1088**	**0.02**	**Yes**	**23**	**0.1288**	**0.03811**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	SGWC-19	0.0025	0.00045	0.02	No	23	0.001505	0.001082	52.17	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**SGWC-20**	**0.2089**	**0.152**	**0.02**	**Yes**	**23**	**0.1805**	**0.05443**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	SGWC-21	0.0025	0.00016	0.02	No	23	0.001683	0.001144	65.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003198	0.001704	0.02	No	23	0.002451	0.001428	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	23	0.002397	0.0004942	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.0025	0.0012	0.02	No	23	0.001967	0.001158	39.13	None	No	0.01	NP (normality)
Cobalt (mg/L)	SGWC-7	0.009732	0.004573	0.02	No	23	0.007152	0.004932	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.0025	0.00075	0.02	No	23	0.001887	0.0009849	65.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01121	0.005095	0.02	No	23	0.008155	0.00585	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-14S	0.432	0.0627	5	No	4	0.2677	0.1836	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-17I	0.882	0.125	5	No	4	0.393	0.3351	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-39S	0.565	0.0623	5	No	4	0.2726	0.2261	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-40I	1.59	0.366	5	No	4	0.914	0.5172	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-41S	0.698	0.168	5	No	5	0.3534	0.2225	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-42I	0.651	0.188	5	No	4	0.3785	0.2016	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-43S	1.64	0.241	5	No	4	0.7238	0.6284	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-44I	0.551	-0.0607	5	No	4	0.2064	0.26	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.452	0.102	5	No	23	0.2979	0.3421	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.472	0.1523	5	No	23	0.3122	0.3057	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4409	0.1786	5	No	23	0.3097	0.2508	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4498	0.1987	5	No	23	0.3242	0.2401	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.3312	0.06715	5	No	23	0.1992	0.2524	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.4551	0.2493	5	No	23	0.3522	0.1968	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.3451	0.116	5	No	23	0.2305	0.219	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.3978	0.1775	5	No	23	0.2877	0.2107	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.435	0.17	5	No	23	0.3654	0.3384	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.396	0.11	5	No	23	0.2861	0.3334	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.5647	0.278	5	No	23	0.4213	0.2741	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.565	0.218	5	No	23	0.4492	0.3498	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.459	0.1494	5	No	23	0.357	0.3985	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6145	0.3624	5	No	23	0.4884	0.241	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.3648	0.1352	5	No	23	0.25	0.2195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.5164	0.2759	5	No	23	0.3961	0.2299	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.5	1.966	5	No	23	2.233	0.5102	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.3662	0.1455	5	No	23	0.2558	0.211	0	None	No	0.01	Param.
Fluoride, total (mg/L)	PZ-17I	0.06532	0.02147	4	No	4	0.08075	0.08004	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	PZ-39S	0.1049	0.02309	4	No	4	0.073	0.02547	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	PZ-40I	0.05399	0.02901	4	No	4	0.07075	0.03407	50	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	PZ-41S	0.07588	0.01912	4	No	4	0.07375	0.03198	50	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	PZ-42I	0.1167	0.002259	4	No	4	0.0595	0.02521	0	None	No	0.01	Param.
Fluoride, total (mg/L)	PZ-43S	0.05166	0.02394	4	No	4	0.07675	0.08237	25	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	PZ-44I	0.1	0.031	4	No	4	0.06625	0.03899	50	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	SGWC-10	0.1	0.047	4	No	24	0.08633	0.02764	79.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	24	0.09033	0.02099	79.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.09457	0.06335	4	No	24	0.104	0.05334	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.1	0.053	4	No	24	0.08404	0.03044	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.04	4	No	24	0.07913	0.03106	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	24	0.1375	0.05232	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.058	4	No	24	0.08358	0.02911	70.83	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.2	0.051	4	No	24	0.1149	0.07228	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-18	0.1	0.091	4	No	24	0.09118	0.03024	58.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.1	0.057	4	No	24	0.09319	0.03034	79.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2455	0.1781	4	No	24	0.2154	0.07178	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09401	0.07035	4	No	24	0.1201	0.05687	29.17	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.075	4	No	24	0.086	0.02613	70.83	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-23	0.2	0.046	4	No	24	0.1135	0.07082	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-6	0.1404	0.1037	4	No	24	0.1239	0.03823	12.5	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-7	0.2293	0.1803	4	No	24	0.2048	0.04808	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.4687	0.3781	4	No	24	0.4234	0.08873	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.09652	0.05662	4	No	24	0.139	0.102	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	PZ-42I	0.001	0.00019	0.015	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.015	No	23	0.000887	0.0002984	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-12	0.001	0.0002	0.015	No	23	0.0009652	0.0001668	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.015	No	23	0.0009735	0.0001272	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.015	No	23	0.0009174	0.0002319	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.015	No	23	0.0009665	0.0001606	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.015	No	23	0.0009622	0.0001814	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-17	0.001	0.00017	0.015	No	23	0.0009639	0.0001731	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-18	0.001	0.00071	0.015	No	23	0.0009565	0.0001574	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-19	0.001	0.00033	0.015	No	23	0.0009709	0.0001397	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00025	0.015	No	23	0.0005974	0.0003676	43.48	None	No	0.01	NP (normality)
Lead (mg/L)	SGWC-21	0.001	0.00041	0.015	No	23	0.0007948	0.0003569	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00019	0.015	No	23	0.0008196	0.0003501	78.26	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.015	No	23	0.0009604	0.0001897	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.015	No	23	0.0009652	0.0001668	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.015	No	23	0.0009191	0.0002463	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00062	0.015	No	23	0.0009526	0.0001647	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14S	0.002362	0.0008382	0.04	No	5	0.00296	0.001903	40	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	PZ-17I	0.005	0.0016	0.04	No	4	0.003325	0.001935	50	None	No	0.0625	NP (normality)
Lithium (mg/L)	PZ-39S	0.022	0.0027	0.04	No	4	0.01095	0.008288	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	PZ-40I	0.015	0.01	0.04	No	4	0.0115	0.00238	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	PZ-41S	0.005	0.00099	0.04	No	4	0.003472	0.001928	50	None	No	0.0625	NP (selected)
Lithium (mg/L)	PZ-42I	0.007808	0.0004915	0.04	No	4	0.00415	0.001611	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-43S	0.005978	0.0002222	0.04	No	4	0.0031	0.001268	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-44I	0.04066	0.002994	0.04	No	7	0.01943	0.02248	14.29	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	SGWC-10	0.005	0.0011	0.04	No	23	0.00483	0.0008132	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.04	No	23	0.003987	0.001365	60.87	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0012	0.04	No	23	0.004665	0.001109	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.04	No	23	0.004678	0.001066	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0015	0.04	No	23	0.004678	0.001068	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.0034	0.04	No	23	0.004061	0.001015	47.83	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.04	No	23	0.004683	0.001053	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.04	No	23	0.004843	0.0007507	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004633	0.003856	0.04	No	23	0.004548	0.0007329	21.74	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.04	No	23	0.00453	0.001393	78.26	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004619	0.003663	0.04	No	22	0.004141	0.000891	4.545	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0038	0.04	No	23	0.004383	0.001288	78.26	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.04	No	23	0.004338	0.001356	78.26	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.04	No	23	0.004161	0.000975	43.48	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-6	0.005	0.0023	0.04	No	23	0.004722	0.0009342	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-7	0.005372	0.004364	0.04	No	22	0.004868	0.0009393	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.0021	0.04	No	23	0.003909	0.001548	65.22	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-9	0.005	0.0014	0.04	No	23	0.004843	0.0007507	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-44I	0.0002	0.000084	0.002	No	4	0.000171	0.000058	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	23	0.000197	0.0000146	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	23	0.0001957	0.00002085	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	23	0.0001953	0.00002231	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	23	0.0001961	0.00001877	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	23	0.0001873	0.00003374	82.61	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00012	0.002	No	23	0.0001616	0.00004414	47.83	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/8/2023, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	23	0.0001946	0.00002586	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00017	0.002	No	23	0.0001878	0.00002907	82.61	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.000177	0.0001184	0.002	No	23	0.0001807	0.00004437	34.78	Kaplan-Meier	x^2	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.00013	0.002	No	23	0.0001863	0.00003732	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	23	0.0001957	0.00002085	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	23	0.0001956	0.00002106	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	23	0.00019	0.00004099	82.61	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	23	0.0001961	0.00001877	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	23	0.0001961	0.00001877	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	23	0.0001946	0.00002586	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	23	0.0001957	0.00002085	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.1	No	22	0.01374	0.004075	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.1	No	22	0.01381	0.003868	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-23	0.015	0.00062	0.1	No	22	0.01435	0.003066	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.1	No	22	0.01371	0.004165	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.00343	0.0012	0.1	No	22	0.00477	0.005725	22.73	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.1	No	22	0.01371	0.004189	90.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00099	0.1	No	22	0.00928	0.007042	59.09	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-17I	0.005	0.00047	0.05	No	4	0.003867	0.002265	75	Kaplan-Meier	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-39S	0.002534	0.0008658	0.05	No	4	0.0017	0.0004243	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	PZ-40I	0.005	0.00059	0.05	No	4	0.003897	0.002205	75	Kaplan-Meier	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-41S	0.00843	0.00352	0.05	No	4	0.005975	0.001081	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-42I	0.005	0.00026	0.05	No	4	0.003815	0.00237	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-44I	0.005	0.00046	0.05	No	4	0.003865	0.00227	75	Kaplan-Meier	No	0.0625	NP (NDs)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No	23	0.004803	0.0009467	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No	23	0.004796	0.0009779	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No	23	0.004606	0.001306	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No	23	0.00463	0.001225	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.005	0.0014	0.05	No	23	0.004222	0.002473	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-16	0.005	0.0012	0.05	No	23	0.003495	0.001937	60.87	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No	23	0.004398	0.00159	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.009377	0.003281	0.05	No	23	0.007789	0.00801	8.696	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00099	0.05	No	23	0.004264	0.001642	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.005	0.00396	0.05	No	23	0.004059	0.001766	69.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00075	0.05	No	23	0.004198	0.00179	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No	23	0.004401	0.001581	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No	23	0.004797	0.0009717	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No	23	0.000917	0.0002423	86.96	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No	23	0.0009265	0.0002435	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No	23	0.0009378	0.0002067	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No	23	0.0009661	0.0001626	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00035	0.002	No	23	0.0009043	0.0002683	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.0001	0.002	No	23	0.0006023	0.0004326	52.17	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-17	0.001	0.00024	0.002	No	23	0.000967	0.0001585	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-18	0.00066	0.00013	0.002	No	23	0.0003659	0.0003325	17.39	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00028	0.00016	0.002	No	23	0.000327	0.0003199	17.39	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-22	0.001	0.00038	0.002	No	23	0.000973	0.0001293	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-23	0.001	0.00016	0.002	No	23	0.0009635	0.0001752	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No	23	0.000877	0.000279	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00042	0.002	No	23	0.0009409	0.0001982	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No	23	0.0008883	0.0002709	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.0004	0.002	No	23	0.0009422	0.0001926	91.3	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

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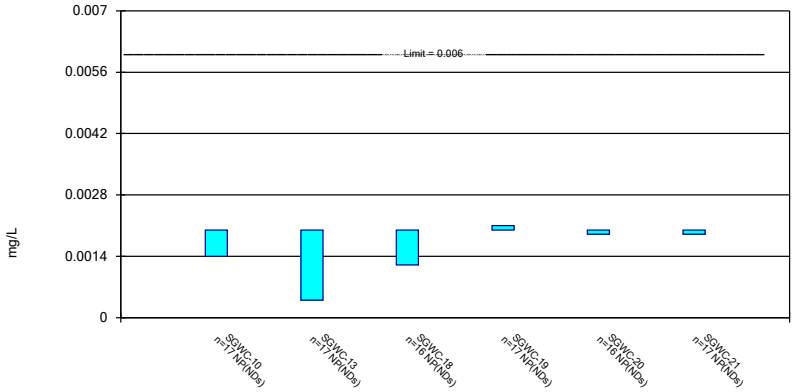

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Non-Parametric Confidence Interval

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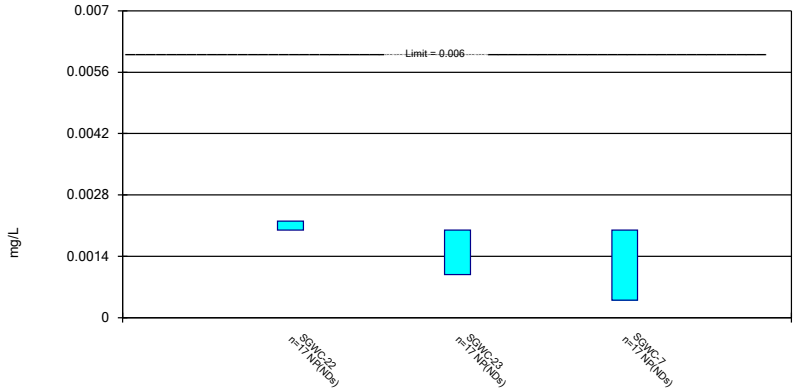

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Parametric and Non-Parametric (NP) Confidence Interval

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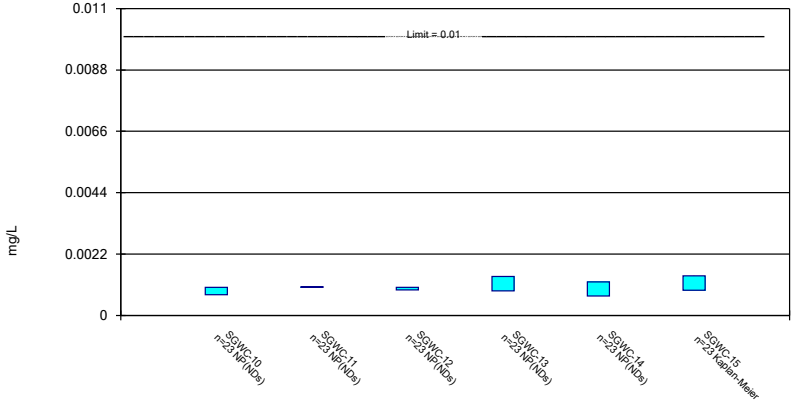

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Parametric and Non-Parametric (NP) Confidence Interval

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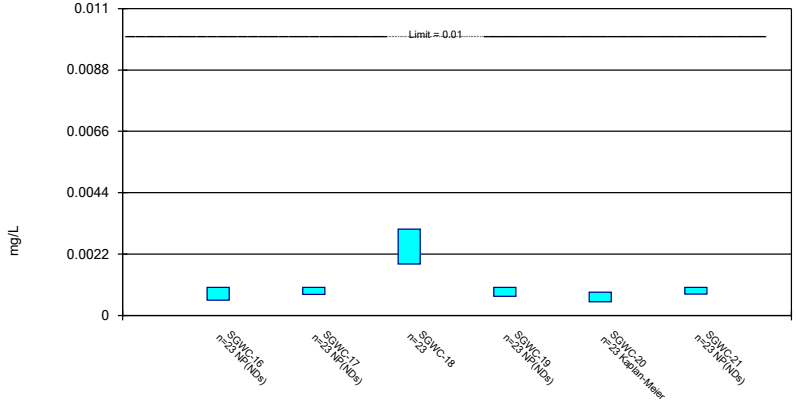

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Non-Parametric Confidence Interval

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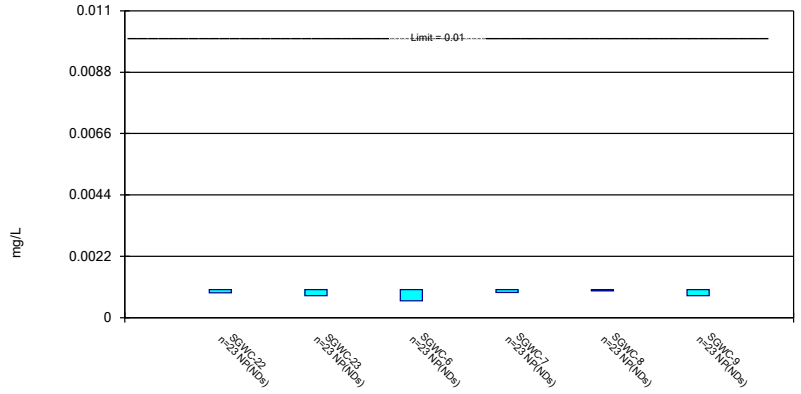

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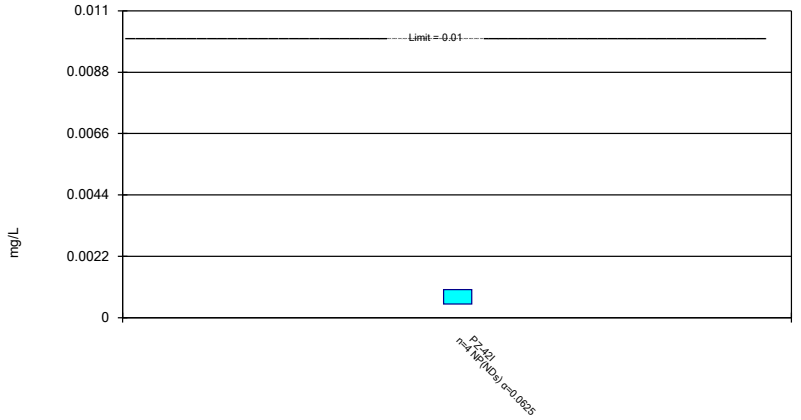
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



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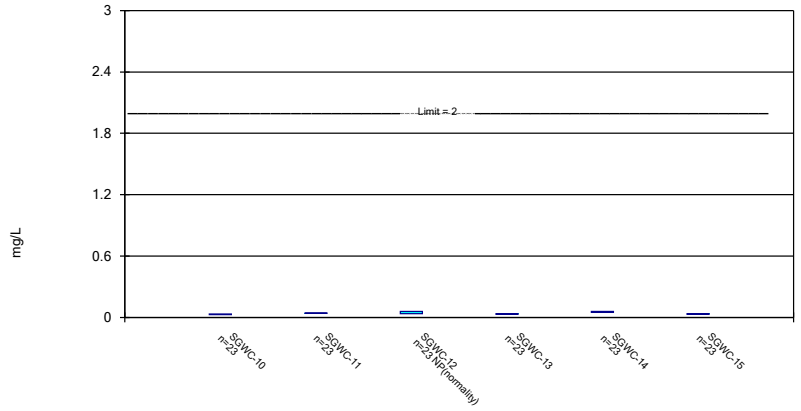
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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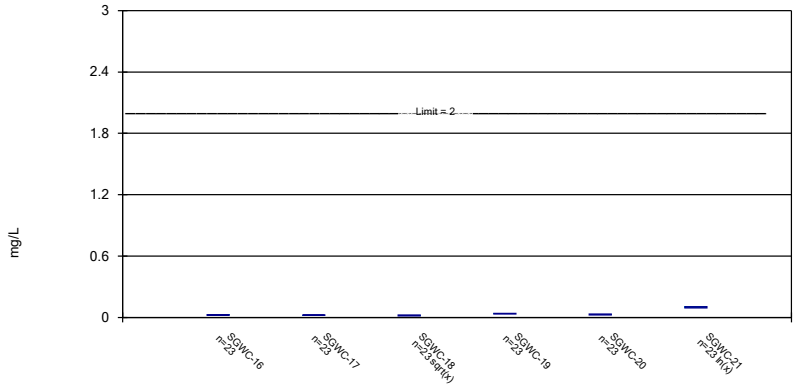
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Parametric Confidence Interval

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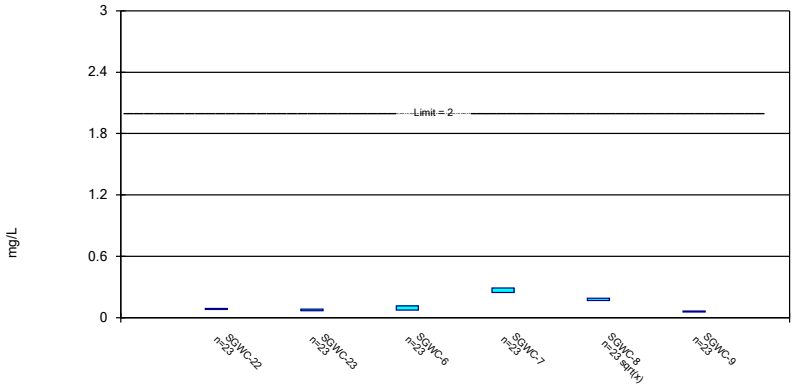

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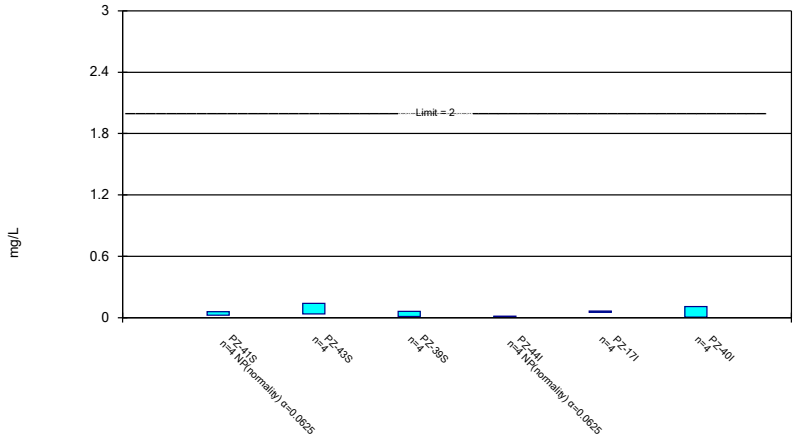
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

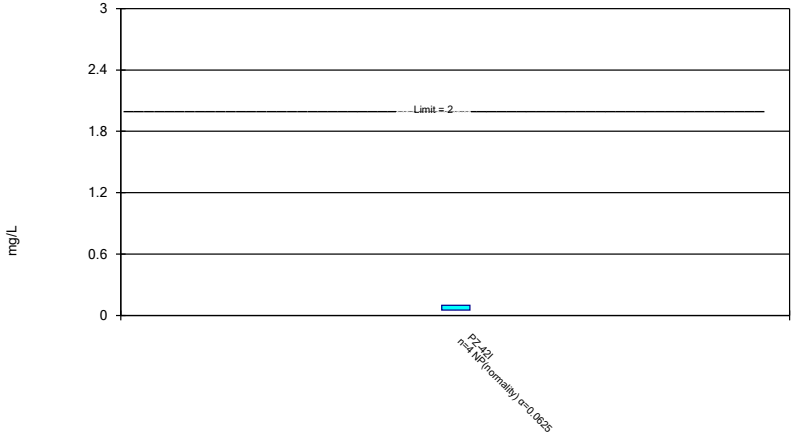


Constituent: Barium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

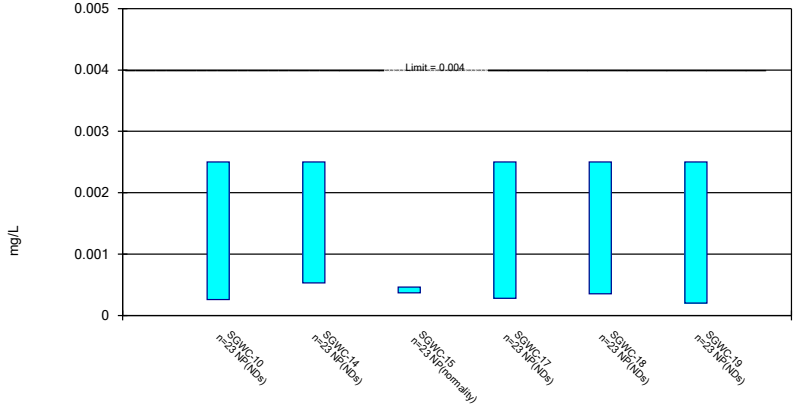


Constituent: Barium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

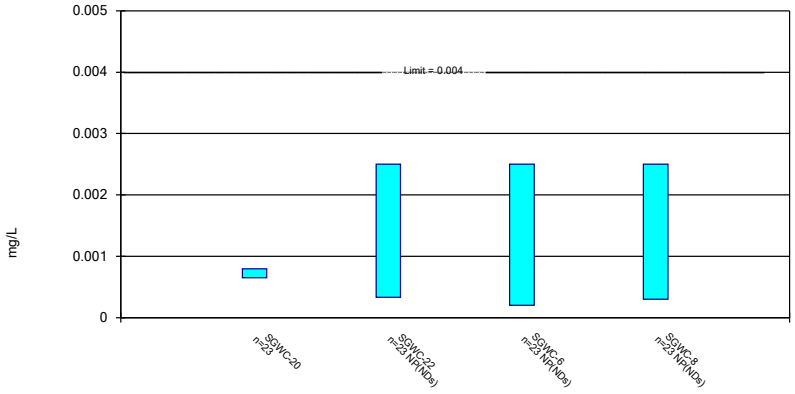
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

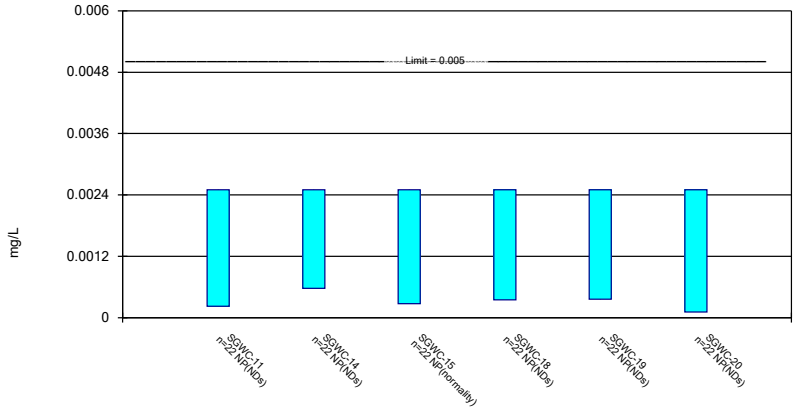
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

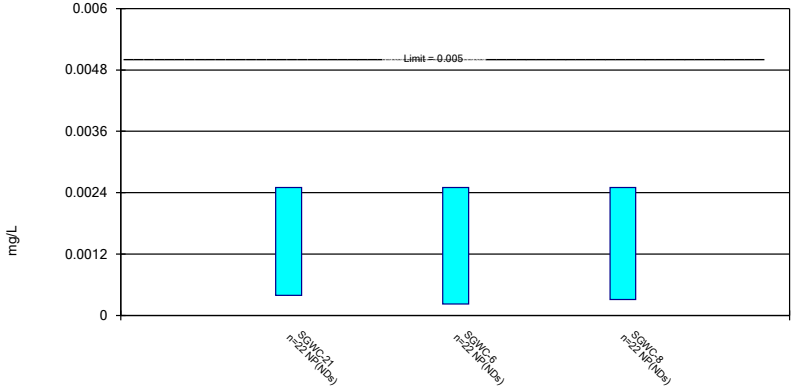
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

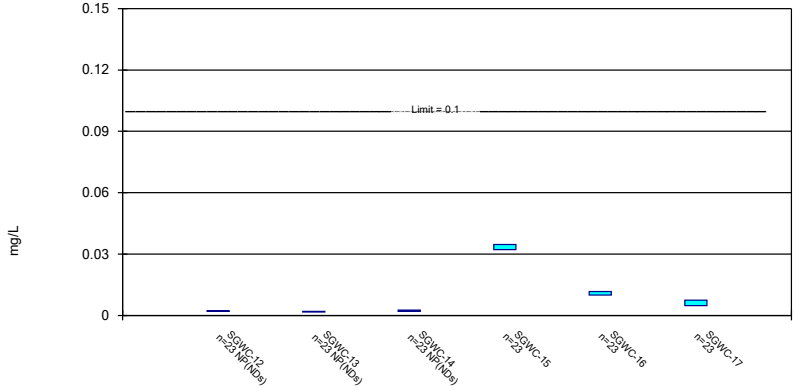
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

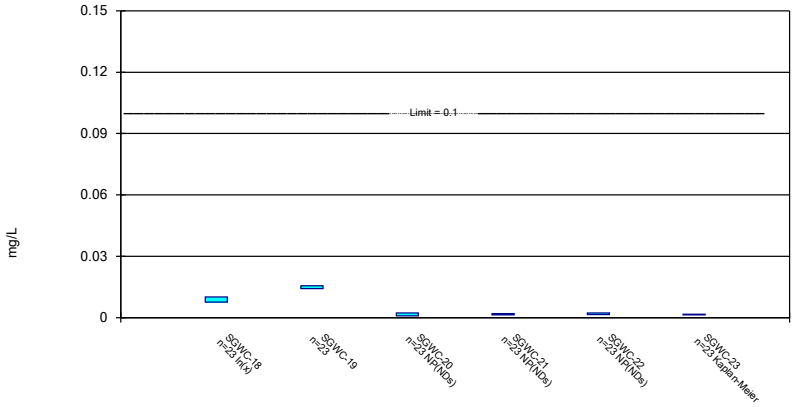
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

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.

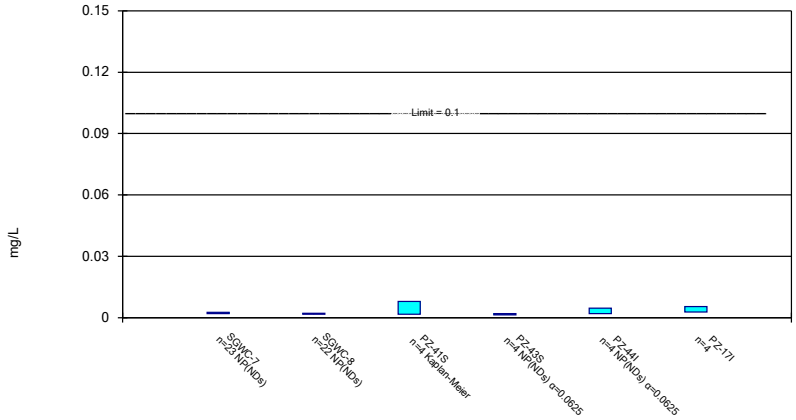


Constituent: Chromium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

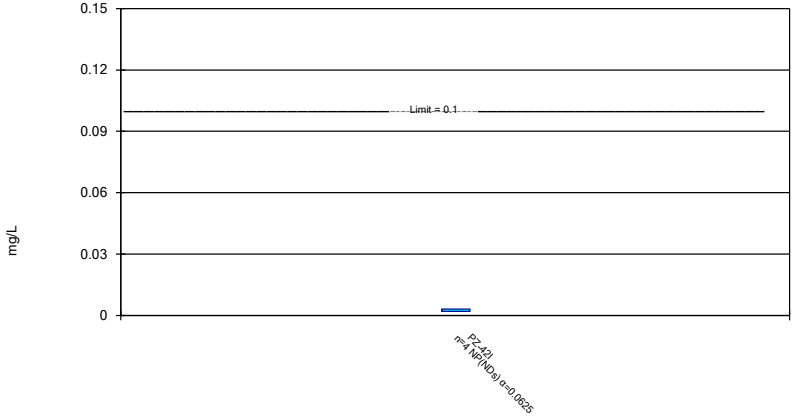


Constituent: Chromium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

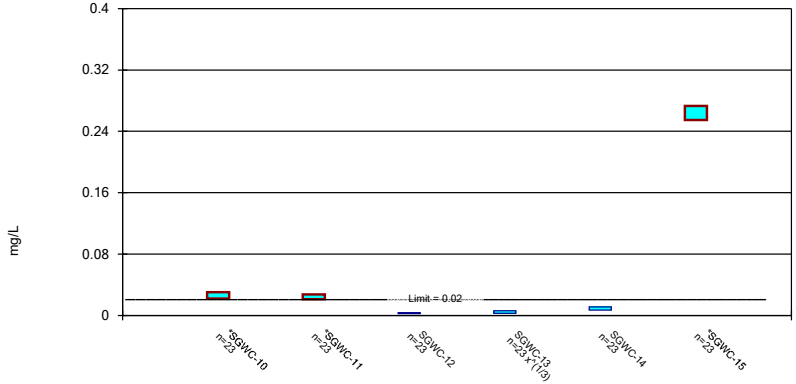


Constituent: Chromium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric Confidence Interval

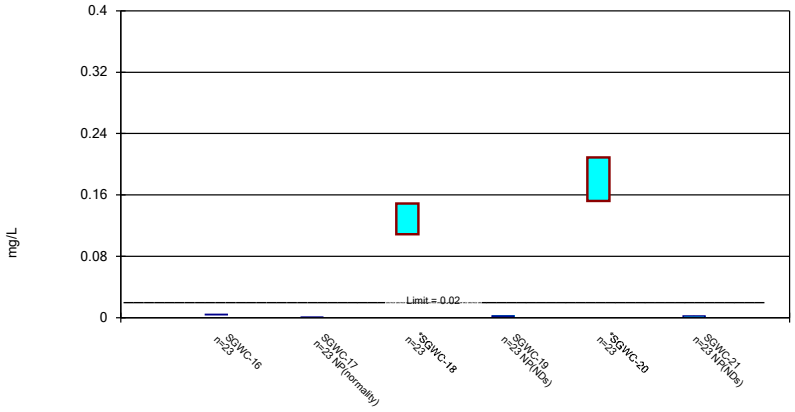
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

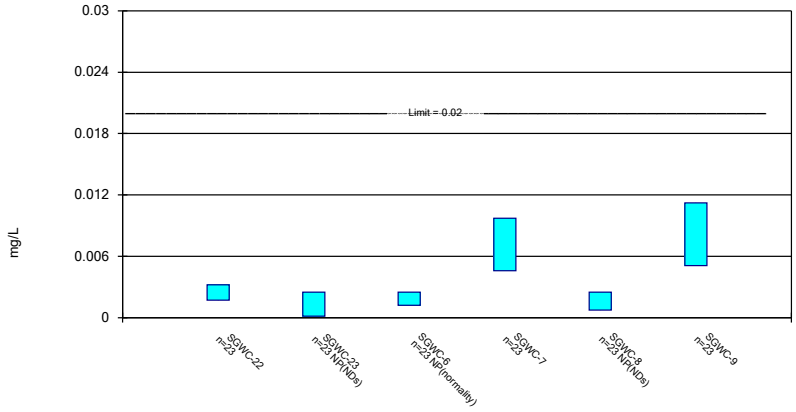


Constituent: Cobalt Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

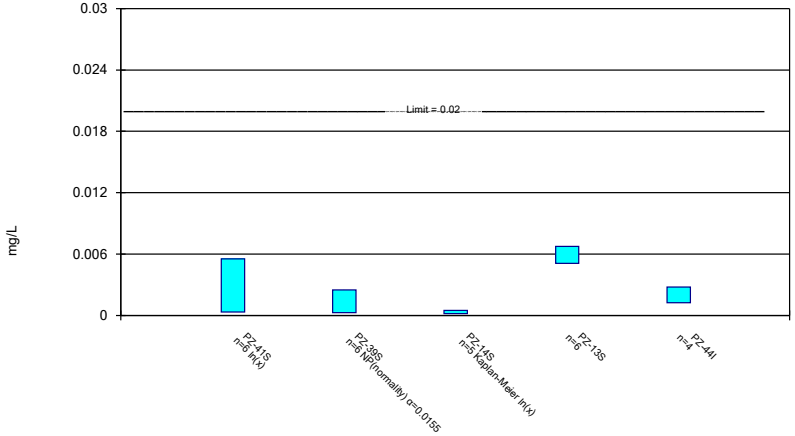


Constituent: Cobalt Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

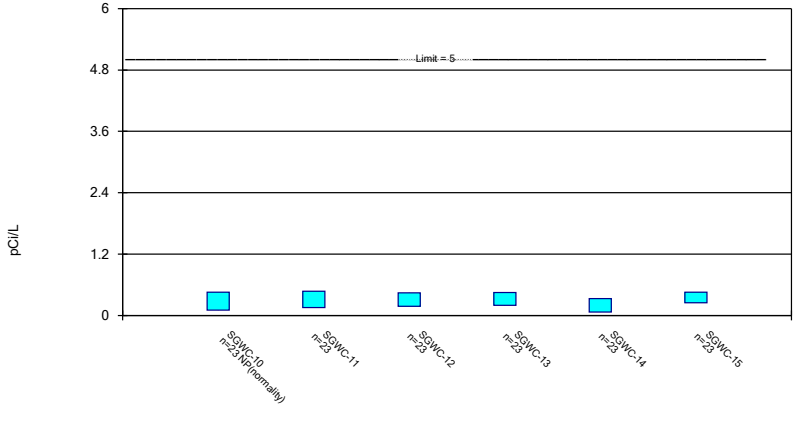


Constituent: Cobalt Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

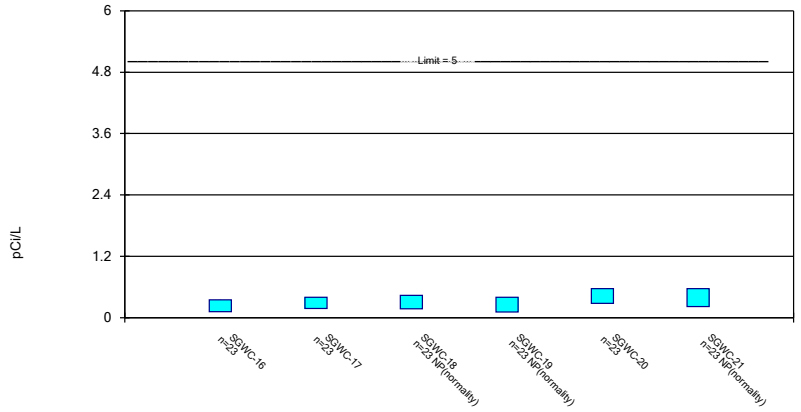
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

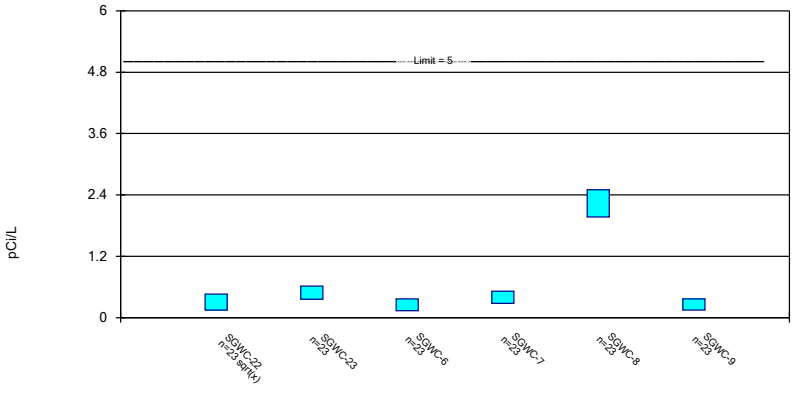


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 1:54 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

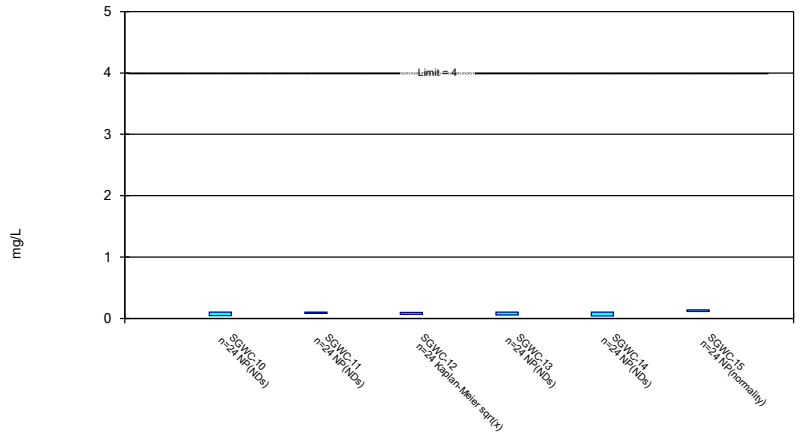


Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 1:54 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

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.

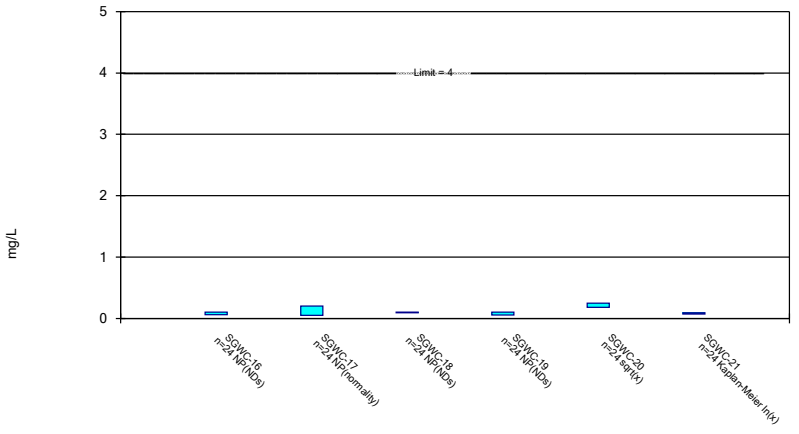


Constituent: Fluoride, total Analysis Run 5/8/2023 1:54 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

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.

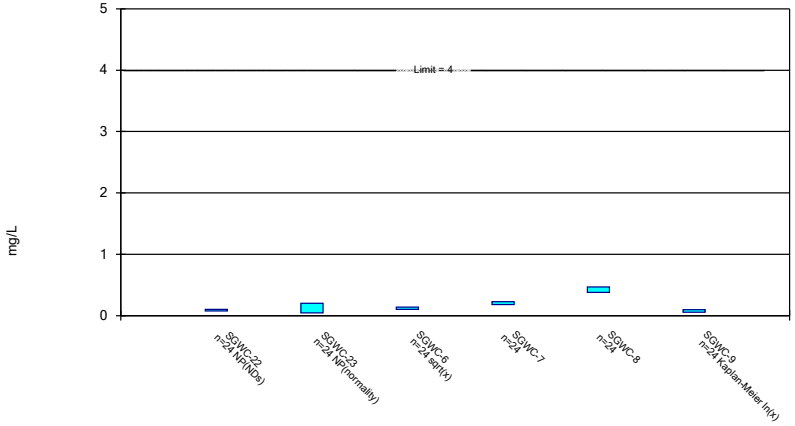


Constituent: Fluoride, total Analysis Run 5/8/2023 1:54 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

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.

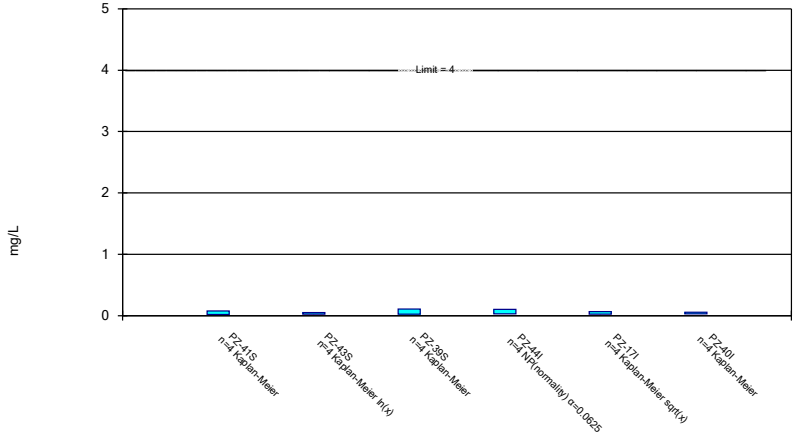


Constituent: Fluoride, total Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric Confidence Interval

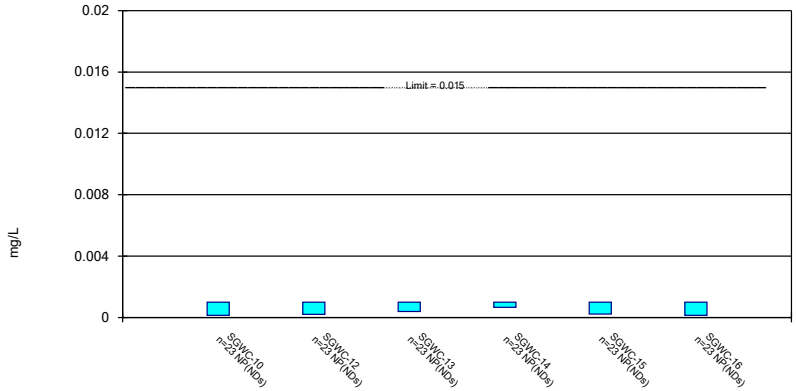
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

Constituent: Fluoride, total Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

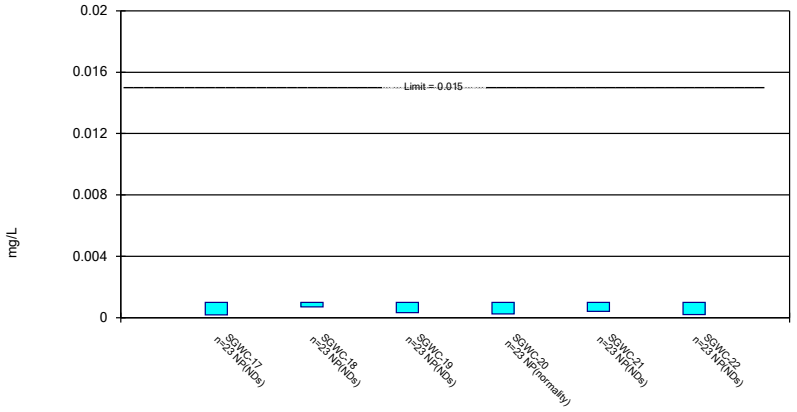
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

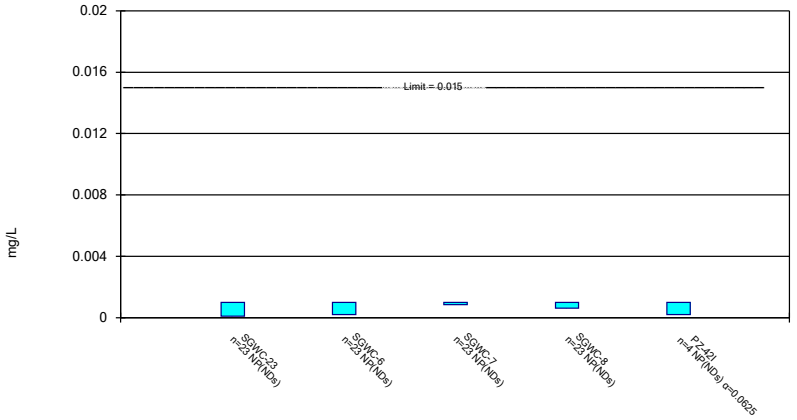


Constituent: Lead Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

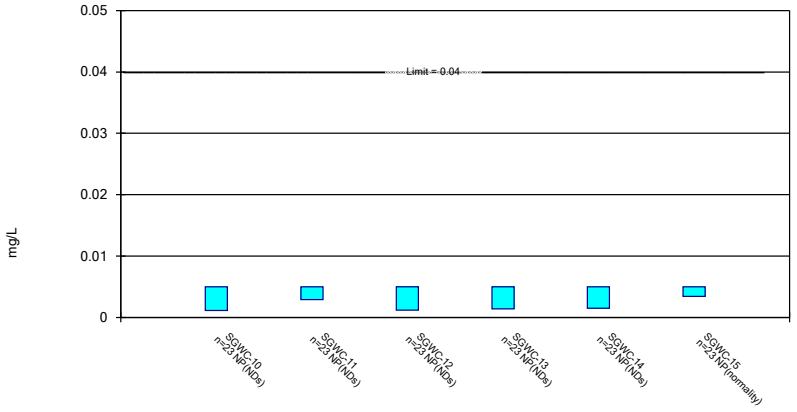


Constituent: Lead Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

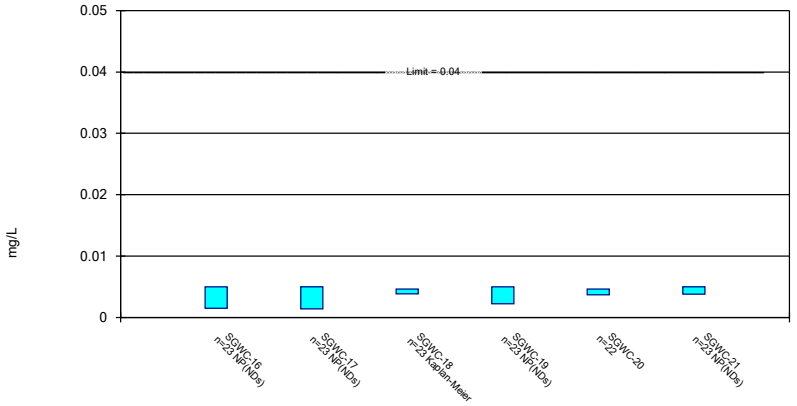


Constituent: Lithium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

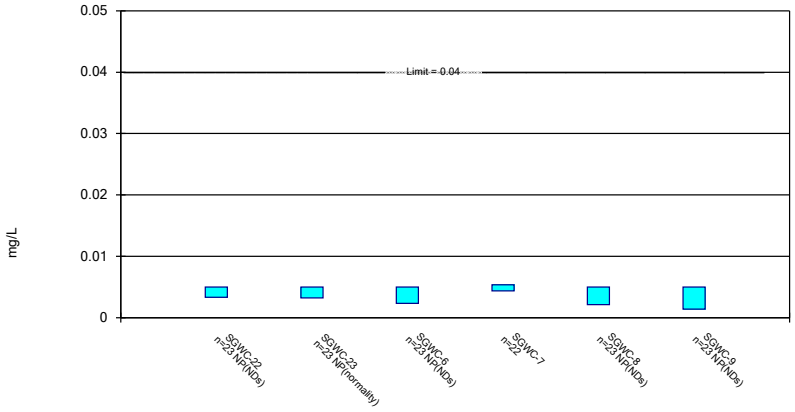
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

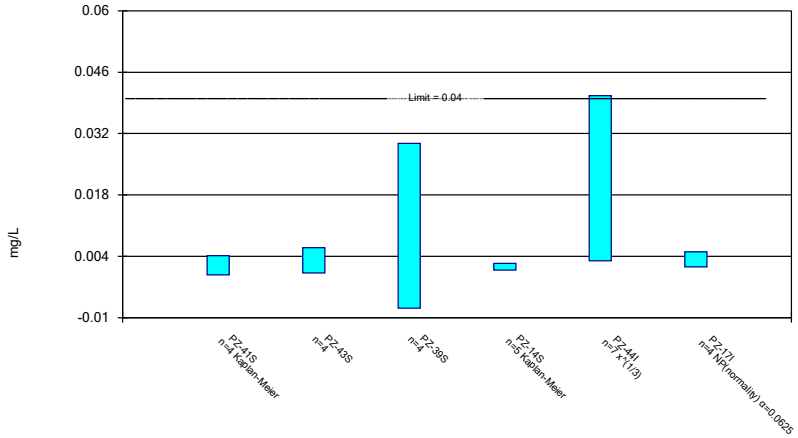


Constituent: Lithium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

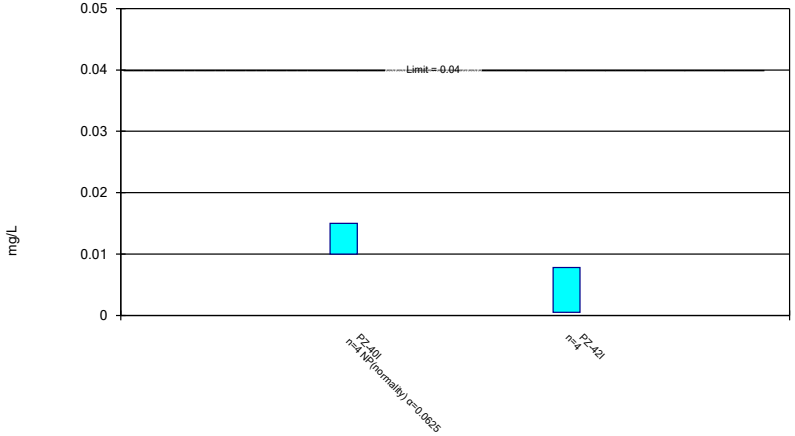


Constituent: Lithium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

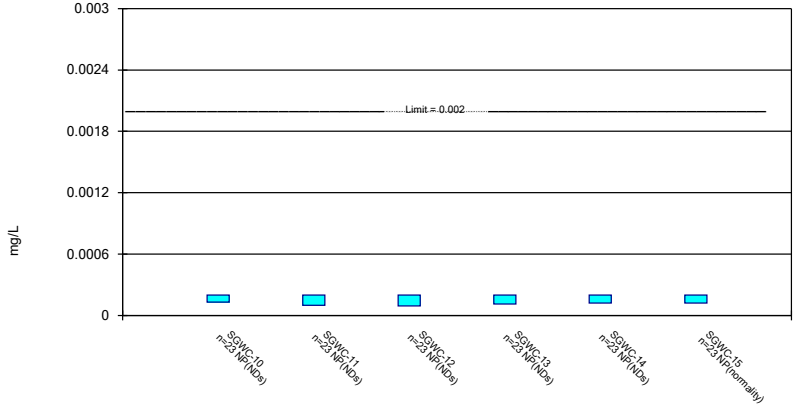


Constituent: Lithium Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

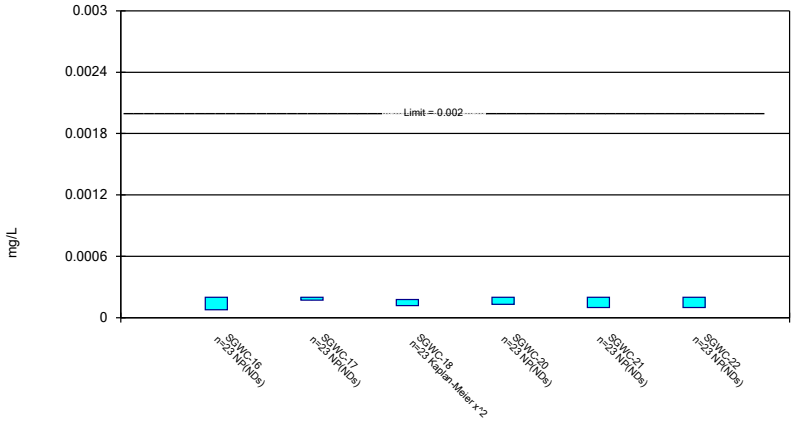
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

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.

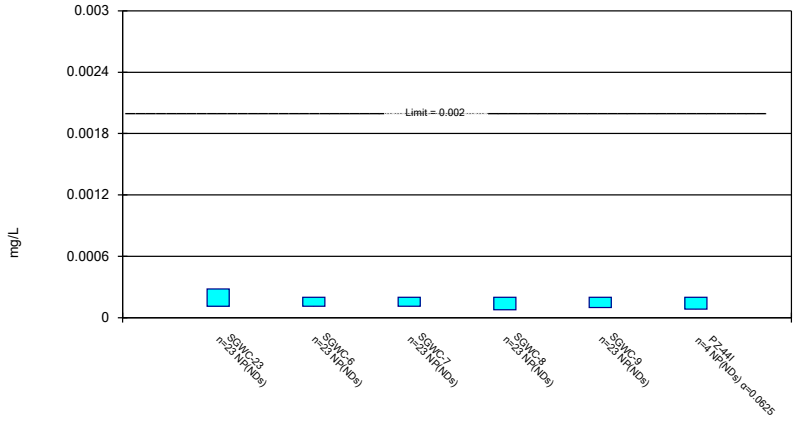


Constituent: Mercury Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

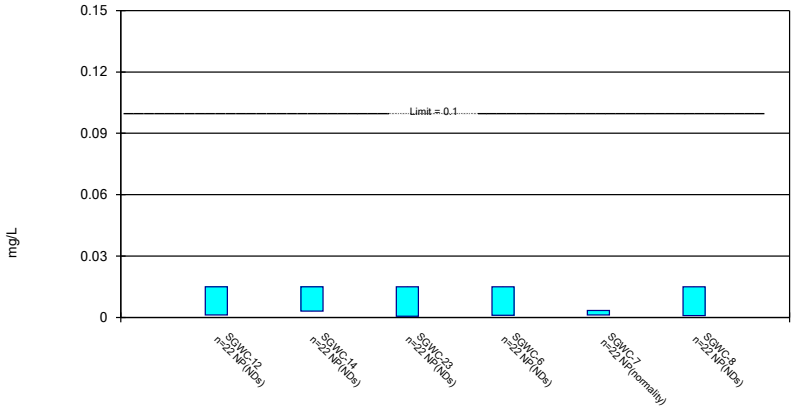


Constituent: Mercury Analysis Run 5/8/2023 1:54 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

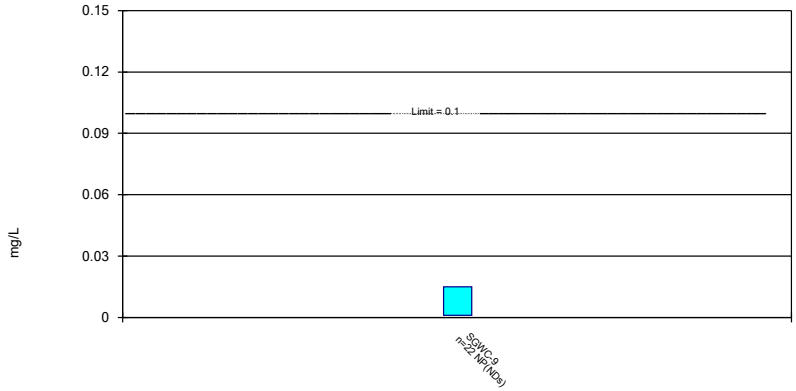


Constituent: Molybdenum Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

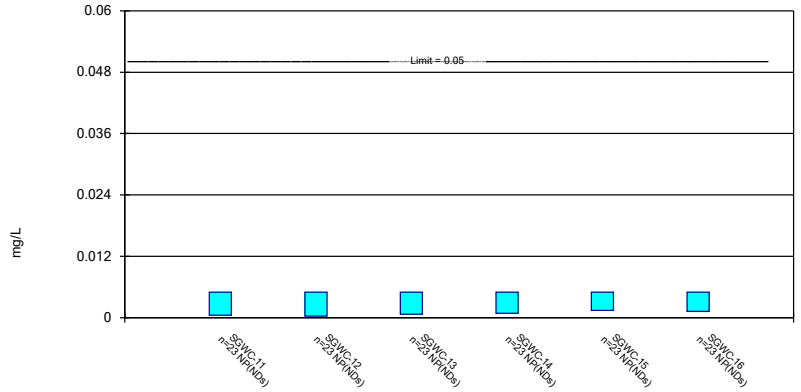
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

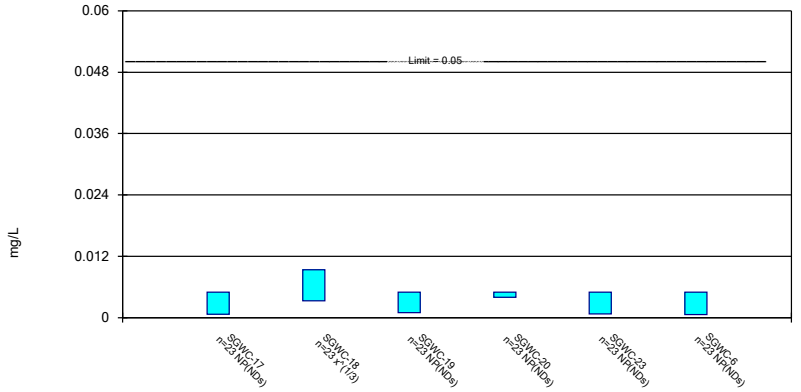


Constituent: Selenium Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

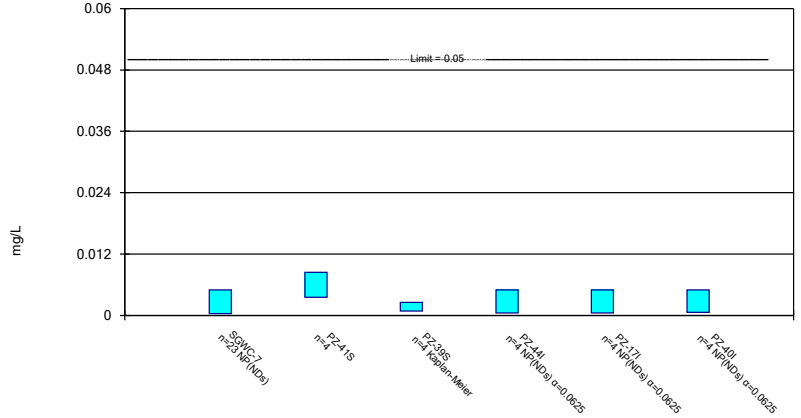


Constituent: Selenium Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

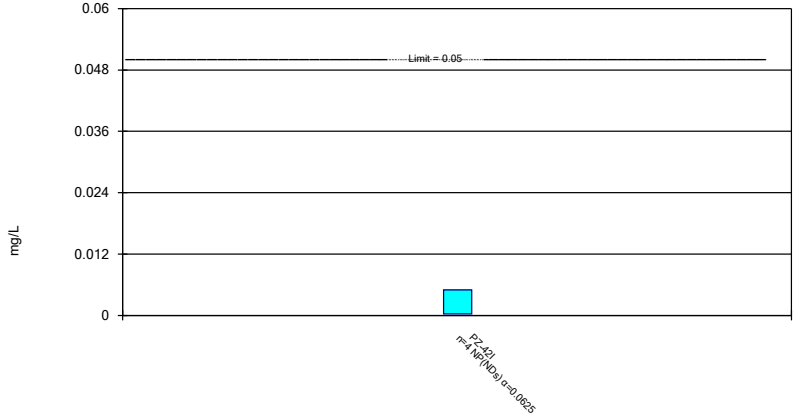


Constituent: Selenium Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

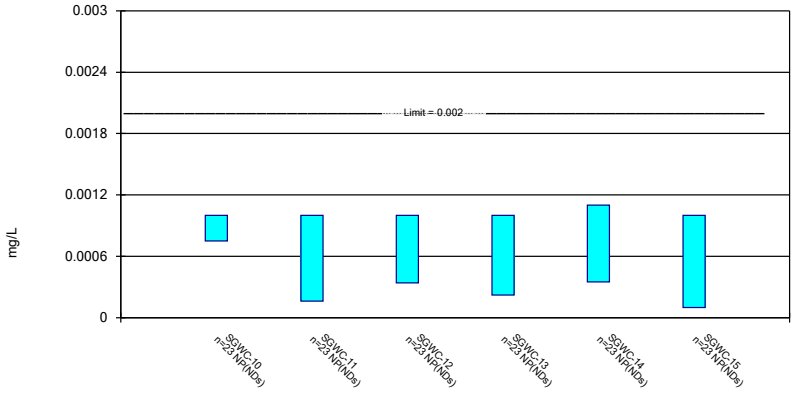
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

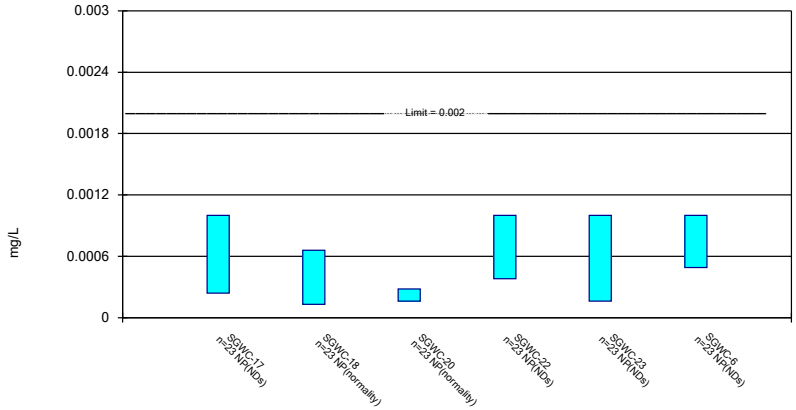


Constituent: Thallium Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

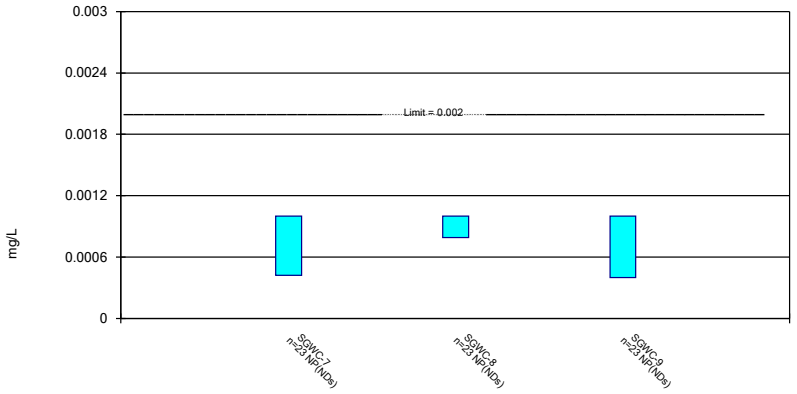


Constituent: Thallium Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/8/2023 1:55 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-13	SGWC-18	SGWC-19	SGWC-20	SGWC-21
5/11/2016	<0.002					
5/12/2016		<0.002			<0.002	<0.002
5/13/2016			<0.002	<0.002		
6/28/2016	0.0014 (J)	0.0004 (J)				
6/29/2016				<0.002	<0.002	<0.002
6/30/2016			0.0012 (J)			
8/17/2016	<0.002					
8/18/2016		<0.002				
8/22/2016			<0.002	<0.002	<0.002	<0.002
10/17/2016	<0.002	<0.002				
10/18/2016				<0.002	<0.002	<0.002
10/19/2016			<0.002			
12/6/2016	<0.002	<0.002				
12/7/2016			<0.002			<0.002
12/8/2016				<0.002	<0.002	
2/15/2017	<0.002	<0.002 (F1)				
2/16/2017			<0.002	<0.002	<0.002	<0.002
4/12/2017	<0.002	<0.002				
4/13/2017			<0.002	<0.002	<0.002	<0.002
6/27/2017	<0.002	<0.002				
6/28/2017			<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002				
3/28/2018			<0.002	<0.002	<0.002	<0.002
10/8/2018		<0.002				<0.002
10/9/2018	<0.002			<0.002		
2/20/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/18/2020					<0.002	<0.002
2/19/2020	<0.002	<0.002		<0.002		
2/20/2020			<0.002			
2/9/2021	<0.002	<0.002				
2/10/2021			<0.002	<0.002	<0.002	<0.002
8/18/2021			<0.002			<0.002
8/19/2021	<0.002	<0.002		<0.002	<0.002	
2/10/2022			<0.002			
2/11/2022	<0.002	<0.002		<0.002	<0.002	<0.002
8/18/2022		<0.002				
8/19/2022	<0.002					
8/22/2022				0.0021	0.0019 (J)	0.0019 (J)
8/23/2022			<0.002			
2/22/2023	<0.002		<0.002	<0.002	<0.002	
2/23/2023		<0.002				<0.002
Mean	0.001965	0.001906	0.00195	0.002006	0.001994	0.001994
Std. Dev.	0.0001455	0.0003881	0.0002	2.425E-05	2.5E-05	2.425E-05
Upper Lim.	0.002	0.002	0.002	0.0021	0.002	0.002
Lower Lim.	0.0014	0.0004	0.0012	0.002	0.0019	0.0019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-7
5/11/2016			<0.002
5/12/2016	<0.002	<0.002	
6/27/2016			0.0004 (J)
6/29/2016	<0.002	<0.002	
8/17/2016			<0.002
8/19/2016	<0.002	<0.002	
10/18/2016	<0.002	<0.002	<0.002
12/6/2016			<0.002
12/7/2016	<0.002	<0.002	
2/14/2017			<0.002
2/15/2017		<0.002	
2/16/2017	<0.002		
4/12/2017			<0.002
4/13/2017	<0.002	<0.002	
6/27/2017			<0.002
6/28/2017	<0.002	<0.002	
3/27/2018		<0.002	<0.002
3/28/2018	<0.002		
10/8/2018	<0.002	<0.002	
10/9/2018			<0.002
2/19/2019	<0.002	<0.002	
2/20/2019			<0.002
2/18/2020	<0.002	<0.002	<0.002
2/9/2021			<0.002
2/10/2021	<0.002	<0.002	
8/18/2021	<0.002	<0.002	<0.002
2/9/2022			<0.002
2/10/2022	<0.002	<0.002	
8/18/2022			<0.002
8/22/2022	0.0022	0.00098 (J)	
2/22/2023			<0.002
2/23/2023	<0.002	<0.002	
Mean	0.002012	0.00194	0.001906
Std. Dev.	4.851E-05	0.0002474	0.0003881
Upper Lim.	0.0022	0.002	0.002
Lower Lim.	0.002	0.00098	0.0004

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	<0.001	0.00103 (J)	<0.001			
5/12/2016				<0.001	<0.001	<0.0013
6/28/2016	<0.001	0.0011 (J)	0.001 (J)	<0.001	<0.001	0.0026 (J)
8/17/2016	<0.001	0.0011 (J)				
8/18/2016			0.00091 (J)	<0.001	<0.001	0.0015
10/17/2016	<0.001	0.0011 (J)	<0.001	<0.001	<0.001	
10/18/2016						0.0019
12/6/2016	<0.001	0.00072 (J)	<0.001	<0.001		
12/7/2016					<0.001	0.00079 (J)
2/15/2017	0.0005 (J)	0.0011 (J)	0.00076 (J)	<0.001	<0.001	0.00073 (J)
4/12/2017	<0.001	0.00076 (J)	0.00046 (J)	0.00047 (J)	0.00057 (J)	0.0009 (J)
6/27/2017	0.00074 (J)	0.0011 (J)	0.0011 (J)	0.00088 (J)	0.00058 (J)	0.0011 (J)
3/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0013
6/6/2018	<0.001	<0.001	<0.001			
6/7/2018				<0.001	<0.001	<0.0013
10/8/2018			0.0007 (J)	0.00069 (J)	0.0007 (J)	
10/9/2018	<0.001					
10/16/2018		<0.001				<0.0013
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	0.00075 (J)
4/1/2019	0.00059 (J)	0.0011 (J)	0.0012 (J)	0.0014	0.0012 (J)	0.0016
9/16/2019		<0.001	<0.001			
9/17/2019	<0.001			<0.001	<0.001	0.0008 (J)
2/18/2020		<0.001				
2/19/2020	<0.001		0.00032 (J)	<0.001	<0.001	0.001
3/25/2020	<0.001	<0.001				
3/26/2020			0.00032 (J)			
3/27/2020				<0.001	0.0014	0.0016
9/14/2020	<0.001	<0.001	<0.001	<0.001		
9/15/2020					<0.001	0.0014
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
3/31/2021	<0.001					0.0012
4/6/2021					<0.001	
4/7/2021		<0.001	<0.001	<0.001		
8/19/2021	<0.001	<0.001		<0.001	<0.001	0.0014
8/20/2021			<0.001			
2/10/2022		<0.001	<0.001			
2/11/2022	<0.001			<0.001		0.0021
2/14/2022					<0.001	
8/18/2022		<0.001	<0.001	<0.001		
8/19/2022	<0.001				<0.001	0.00066 (J)
2/22/2023	<0.001	<0.001				
2/23/2023			<0.001	<0.001	<0.001	0.0012
Mean	0.0009491	0.001005	0.000903	0.0009757	0.0009761	0.001293
Std. Dev.	0.0001392	9.448E-05	0.0002341	0.0001563	0.0001703	0.0004664
Upper Lim.	0.001	0.00103	0.001	0.0014	0.0012	0.00142
Lower Lim.	0.00074	0.001	0.00091	0.00088	0.0007	0.0009042

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21
5/12/2016	<0.001	<0.001			<0.0013	<0.001
5/13/2016			0.00161 (J)	<0.001		
6/28/2016	<0.001					
6/29/2016		<0.001		<0.001	0.0018 (J)	<0.001
6/30/2016			0.004 (J)			
8/18/2016	<0.001	<0.001				
8/22/2016			0.0012 (J)	<0.001	0.001 (J)	<0.001
10/18/2016	<0.001			<0.001	0.00085 (J)	<0.001
10/19/2016		0.001045 (JD)	0.0019			
12/7/2016	<0.001	<0.001	0.0012 (J)			<0.001
12/8/2016				<0.001	<0.0013	
2/15/2017		0.00059 (J)				
2/16/2017	<0.001		0.00086 (J)	<0.001	<0.0013	<0.001
4/13/2017	<0.001	0.00066 (J)	0.00058 (J)	<0.001	<0.0013	<0.001
6/27/2017	0.00055 (J)	0.00075 (J)				
6/28/2017			0.0011 (J)	0.00068 (J)	0.00094 (J)	0.00076 (J)
3/27/2018	<0.001	<0.001				
3/28/2018			0.0015	<0.001	<0.0013	<0.001
6/7/2018	<0.001	<0.001			<0.0013	<0.001
6/8/2018			0.002	<0.001		
10/8/2018	0.00054 (J)	0.00075 (J)				<0.001
10/9/2018				0.00058 (J)		
10/18/2018			0.0031		<0.0013	
2/20/2019	<0.001	<0.001	0.003	<0.001	<0.0013	<0.001
4/2/2019	<0.001	<0.001	0.0027	<0.001	<0.0013	<0.001
9/17/2019	<0.001	<0.001	0.0029	<0.001	0.00037 (J)	<0.001
2/18/2020					0.00032 (J)	<0.001
2/19/2020	<0.001	<0.001		<0.001		
2/20/2020			0.0031			
3/23/2020				<0.001	0.0005 (J)	<0.001
3/24/2020		<0.001				
3/26/2020			0.0047			
3/27/2020	<0.001					
9/15/2020	<0.001	<0.001	0.0045	<0.001	0.00051 (J)	<0.001
2/9/2021	<0.001					
2/10/2021		0.00038 (J)	0.0033	<0.001	0.00059 (J)	<0.001
3/30/2021			0.0028	<0.001	0.00049 (J)	<0.001
4/1/2021	0.00033 (J)	<0.001				
8/18/2021		<0.001	0.0028			<0.001
8/19/2021	<0.001			<0.001	0.00066 (J)	
2/10/2022	<0.001		0.0043			
2/11/2022		<0.001		<0.001	0.00081 (J)	<0.001
8/22/2022				<0.001	0.00042 (J)	<0.001
8/23/2022			0.0021			
8/31/2022	<0.001	<0.001				
2/22/2023		<0.001	0.0015	<0.001	0.00046 (J)	
2/23/2023	<0.001					<0.001
Mean	0.0009313	0.0009207	0.002467	0.0009678	0.0009313	0.0009896
Std. Dev.	0.0001852	0.0001719	0.001198	0.0001077	0.0004224	5.004E-05
Upper Lim.	0.001	0.001	0.003094	0.001	0.0008289	0.001
Lower Lim.	0.00055	0.00075	0.001841	0.00068	0.0004932	0.00076

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016			<0.001	<0.001	<0.001	<0.001
5/12/2016	<0.001	<0.001				
6/27/2016			<0.001	0.0009 (J)	<0.001	
6/29/2016	<0.001	<0.001				0.0009 (J)
8/17/2016			<0.001	0.0006 (J)	<0.001	
8/19/2016	<0.001	<0.001				
8/22/2016						<0.001
10/17/2016			<0.001		<0.001	
10/18/2016	<0.001	<0.001		<0.001		0.00074 (J)
12/6/2016			<0.001	<0.001	<0.001	
12/7/2016	<0.001	<0.001				0.00079 (J)
2/14/2017			0.0006 (J)	0.00059 (J)	0.0005 (J)	
2/15/2017		<0.001				
2/16/2017	<0.001					0.00056 (J)
4/12/2017			0.00046 (J)	0.00058 (J)	<0.001	
4/13/2017	0.0006 (J)	0.00061 (J)				0.00079 (J)
6/27/2017			<0.001	<0.001	0.00076 (J)	0.0011 (J)
6/28/2017	0.00089 (J)	0.00079 (J)				
3/27/2018		<0.001	<0.001	<0.001	<0.001	
3/28/2018	<0.001					<0.001
6/6/2018			<0.001	<0.001	<0.001	<0.001
6/7/2018	<0.001	<0.001				
10/8/2018	<0.001	<0.001	<0.001			
10/9/2018				0.00057 (J)	0.00053 (J)	0.00068 (J)
2/19/2019	<0.001	<0.001				
2/20/2019			<0.001	<0.001	<0.001	<0.001
4/1/2019				<0.001	0.001 (J)	<0.001
4/2/2019	<0.001	<0.001	<0.001			
9/16/2019			<0.001			<0.001
9/17/2019				<0.001	0.00035 (J)	
9/18/2019	0.00035 (J)	<0.001				
2/18/2020	0.00034 (J)	<0.001	<0.001	<0.001	<0.001	
2/19/2020						0.00039 (J)
3/24/2020	<0.001	<0.001				
3/25/2020			0.00044 (J)		0.00063 (J)	<0.001
3/26/2020				<0.001		
9/14/2020			<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001				
2/9/2021			<0.001	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001				
3/31/2021	<0.001	<0.001				0.00033 (J)
4/1/2021			<0.001	0.00044 (J)	<0.001	
8/18/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
8/19/2021						<0.001
2/9/2022			<0.001	<0.001		
2/10/2022	0.00031 (J)	<0.001			<0.001	<0.001
8/18/2022				<0.001	<0.001	<0.001
8/19/2022			<0.001			
8/22/2022	0.00044 (J)	<0.001				
2/22/2023			<0.001	<0.001	<0.001	<0.001
2/23/2023	<0.001	<0.001				
Mean	0.0008665	0.0009739	0.0009348	0.0008991	0.000903	0.0008817

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
Std. Dev.	0.0002532	9.059E-05	0.0001742	0.0001882	0.0001991	0.0002101
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00089	0.00079	0.0006	0.0009	0.001	0.00079

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-42I
10/18/2018	<0.001
2/9/2022	<0.001
8/22/2022	0.00049 (J)
2/23/2023	<0.001
Mean	0.0008725
Std. Dev.	0.000255
Upper Lim.	0.001
Lower Lim.	0.00049

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	0.0294	0.038	0.0324			
5/12/2016				0.0198	0.067	0.041
6/28/2016	0.0293	0.0363	0.0321	0.0208	0.0668	0.0435
8/17/2016	0.029	0.033				
8/18/2016			0.03	0.022	0.06	0.043
10/17/2016	0.027	0.035	0.032	0.024	0.06	
10/18/2016						0.041
12/6/2016	0.03	0.035	0.032	0.025		
12/7/2016					0.063	0.042
2/15/2017	0.025	0.036	0.036	0.026	0.061	0.038
4/12/2017	0.028	0.038	0.037	0.029	0.062	0.038
6/27/2017	0.034	0.042	0.042	0.031	0.06	0.041
3/27/2018	0.031	0.039	0.043	0.029	0.055	0.035
6/6/2018	0.027	0.041	0.048			
6/7/2018				0.032	0.057	0.035
10/8/2018			0.049	0.033	0.053	
10/9/2018	0.032					
10/16/2018		0.037				0.031
2/20/2019	0.036	0.044	0.054	0.041	0.053	0.036
4/1/2019	0.039	0.041	0.051	0.038	0.054	0.034
9/16/2019		0.045	0.052			
9/17/2019	0.029			0.036	0.048	0.034
2/18/2020		0.044				
2/19/2020	0.027		0.053	0.033	0.047	0.031
3/25/2020	0.036	0.046				
3/26/2020			0.051			
3/27/2020				0.034	0.049	0.028
9/14/2020	0.027	0.042	0.057	0.039		
9/15/2020					0.05	0.031
2/9/2021	0.028	0.043	0.058	0.036	0.046	0.029
3/31/2021	0.036					0.028
4/6/2021					0.048	
4/7/2021		0.046	0.058	0.037		
8/19/2021	0.025	0.045		0.036	0.042	0.027
8/20/2021			0.057			
2/10/2022		0.045	0.057			
2/11/2022	0.025			0.034		0.027
2/14/2022					0.047	
8/18/2022		0.044	0.056	0.036		
8/19/2022	0.027				0.048	0.025
2/22/2023	0.038	0.044				
2/23/2023			0.058	0.035	0.038	0.023
Mean	0.0302	0.04084	0.04676	0.03159	0.05369	0.03398
Std. Dev.	0.004285	0.004048	0.01028	0.006077	0.00785	0.006195
Upper Lim.	0.03245	0.04296	0.057	0.03477	0.05779	0.03722
Lower Lim.	0.02796	0.03872	0.036	0.02841	0.04958	0.03074

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21
5/12/2016	0.0163	0.0157			0.0436	0.0914
5/13/2016			0.0138	0.0507		
6/28/2016	0.0165					
6/29/2016		0.0161 (J)		0.0485	0.0466	0.0933
6/30/2016			0.0145 (J)			
8/18/2016	0.017	0.016				
8/22/2016			0.014	0.044	0.038	0.086
10/18/2016	0.017			0.042	0.039	0.093
10/19/2016		0.021 (D)	0.016			
12/7/2016	0.017	0.018	0.015			0.096
12/8/2016				0.045	0.038	
2/15/2017		0.02				
2/16/2017	0.017		0.013	0.04	0.034	0.091
4/13/2017	0.019	0.019	0.012	0.037	0.028	0.088
6/27/2017	0.02	0.019				
6/28/2017			0.012	0.04	0.03	0.094
3/27/2018	0.021	0.02				
3/28/2018			0.029	0.034	0.027	0.09
6/7/2018	0.022	0.02			0.029	0.092
6/8/2018			0.032	0.035		
10/8/2018	0.025	0.021				0.092
10/9/2018				0.037		
10/18/2018			0.033		0.027	
2/20/2019	0.027	0.023	0.034	0.036	0.03	0.1
4/2/2019	0.023	0.02	0.028	0.03	0.023	0.087
9/17/2019	0.029	0.025	0.026	0.035	0.025	0.097
2/18/2020					0.023	0.11
2/19/2020	0.029	0.022		0.034		
2/20/2020			0.023			
3/23/2020				0.032	0.024	0.1
3/24/2020		0.024				
3/26/2020			0.02			
3/27/2020	0.027					
9/15/2020	0.031	0.025	0.02	0.034	0.024	0.13
2/9/2021	0.03					
2/10/2021		0.023	0.016	0.031	0.023	0.12
3/30/2021			0.015	0.03	0.021	0.12
4/1/2021	0.029	0.022				
8/18/2021		0.024	0.022			0.12
8/19/2021	0.029			0.027	0.02	
2/10/2022	0.034		0.013			
2/11/2022		0.025		0.032	0.022	0.11
8/22/2022				0.023	0.021	0.1
8/23/2022			0.012			
8/31/2022	0.033	0.033				
2/22/2023		0.024	0.0098 (J)	0.022	0.018	
2/23/2023	0.035					0.1
Mean	0.02451	0.02156	0.01927	0.03562	0.02844	0.1
Std. Dev.	0.006276	0.003814	0.007602	0.007302	0.007882	0.01233
Upper Lim.	0.0278	0.02355	0.02256	0.03944	0.03257	0.1056
Lower Lim.	0.02123	0.01956	0.01501	0.0318	0.02432	0.09344

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016			0.0933	0.295	0.251	0.0494
5/12/2016	0.1	0.0959				
6/27/2016			0.101	0.353	0.205	
6/29/2016	0.0991	0.0957				0.0535
8/17/2016			0.094	0.29	0.16	
8/19/2016	0.096	0.093				
8/22/2016						0.049
10/17/2016			0.11		0.17	
10/18/2016	0.096	0.093		0.29		0.049
12/6/2016			0.11	0.31	0.16	
12/7/2016	0.09	0.09				0.048
2/14/2017			0.056	0.3	0.18	
2/15/2017		0.09				
2/16/2017	0.091					0.056
4/12/2017			0.048	0.3	0.18	
4/13/2017	0.091	0.081				0.063
6/27/2017			0.058	0.36	0.18	0.067
6/28/2017	0.1	0.085				
3/27/2018		0.076	0.021	0.27	0.17	
3/28/2018	0.084					0.069
6/6/2018			0.014	0.24	0.18	0.069
6/7/2018	0.084	0.082				
10/8/2018	0.084	0.077	0.069			
10/9/2018				0.28	0.17	0.077
2/19/2019	0.075	0.064				
2/20/2019			0.052	0.28	0.2	0.077
4/1/2019				0.24	0.19	0.071
4/2/2019	0.076	0.068	0.069			
9/16/2019			0.13			0.077
9/17/2019				0.23	0.19	
9/18/2019	0.078	0.068				
2/18/2020	0.085	0.065	0.083	0.25	0.17	
2/19/2020						0.065
3/24/2020	0.081	0.065				
3/25/2020			0.12		0.19	0.066
3/26/2020				0.23		
9/14/2020			0.14	0.27	0.18	0.059
9/15/2020	0.083	0.064				
2/9/2021			0.12	0.26	0.18	0.054
2/10/2021	0.078	0.066				
3/31/2021	0.072	0.059				0.061
4/1/2021			0.12	0.26	0.17	
8/18/2021	0.074	0.056	0.13	0.24	0.16	
8/19/2021						0.043
2/9/2022			0.13	0.21		
2/10/2022	0.07	0.064			0.18	0.047
8/18/2022				0.2	0.16	0.05
8/19/2022			0.15			
8/22/2022	0.075	0.056				
2/22/2023			0.12	0.22	0.13	0.044
2/23/2023	0.082	0.06				
Mean	0.08453	0.0745	0.09297	0.2686	0.1785	0.0593

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
Std. Dev.	0.009314	0.01364	0.0382	0.04127	0.02227	0.01101
Upper Lim.	0.0894	0.08164	0.1129	0.2902	0.1894	0.06506
Lower Lim.	0.07965	0.06737	0.07299	0.247	0.1667	0.05354

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-41S	PZ-43S	PZ-39S	PZ-44I	PZ-17I	PZ-40I
10/16/2018				0.014		
10/17/2018			0.02			
10/18/2018	0.059	0.12			0.055	0.089
2/9/2022	0.026	0.085	0.04	0.0078 (J)	0.06	
2/10/2022						0.042
8/23/2022			0.039			0.055
8/24/2022	0.025	0.07		0.0079 (J)	0.058	
2/23/2023	0.026				0.062	
2/24/2023		0.076	0.045			0.039
2/28/2023				0.008 (J)		
Mean	0.034	0.08775	0.036	0.009425	0.05875	0.05625
Std. Dev.	0.01667	0.02237	0.01098	0.003051	0.002986	0.02291
Upper Lim.	0.059	0.1385	0.06094	0.014	0.06553	0.1083
Lower Lim.	0.025	0.03697	0.01106	0.0078	0.05197	0.004234

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-42I
10/18/2018	0.1
2/9/2022	0.056
8/22/2022	0.052
2/23/2023	0.052
Mean	0.065
Std. Dev.	0.02341
Upper Lim.	0.1
Lower Lim.	0.052

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-14	SGWC-15	SGWC-17	SGWC-18	SGWC-19
5/11/2016	<0.0025					
5/12/2016		<0.0025	<0.0025	<0.0025		
5/13/2016					<0.0025	<0.0025
6/28/2016	<0.0025	<0.0025	0.0003 (J)			
6/29/2016				<0.0025		0.0002 (J)
6/30/2016					0.0003 (J)	
8/17/2016	<0.0025					
8/18/2016		<0.0025	0.00037 (J)	<0.0025		
8/22/2016					<0.0025	<0.0025
10/17/2016	<0.0025	<0.0025				
10/18/2016			<0.0025			<0.0025
10/19/2016				<0.0025	<0.0025	
12/6/2016	<0.0025					
12/7/2016		<0.0025	<0.0025	<0.0025	<0.0025	
12/8/2016						<0.0025
2/15/2017	<0.0025	<0.0025	0.00037 (J)	<0.0025		
2/16/2017					<0.0025	<0.0025
4/12/2017	<0.0025	<0.0025	0.00035 (J)			
4/13/2017				<0.0025	<0.0025	<0.0025
6/27/2017	<0.0025	<0.0025	0.0004 (J)	<0.0025		
6/28/2017					<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	0.00041 (J)	<0.0025		
3/28/2018					0.00036 (J)	<0.0025
6/6/2018	<0.0025					
6/7/2018		<0.0025	0.00038 (J)	<0.0025		
6/8/2018					0.00035 (J)	<0.0025
10/8/2018		<0.0025		<0.0025		
10/9/2018	<0.0025					<0.0025
10/16/2018			0.0004 (J)			
10/18/2018					<0.0025	
2/20/2019	<0.0025	<0.0025	0.00042 (J)	<0.0025	0.00033 (J)	0.00016 (J)
4/1/2019	<0.0025	<0.0025	0.00034 (J)			
4/2/2019				<0.0025	<0.0025	<0.0025
9/17/2019	<0.0025	<0.0025	0.00046 (J)	<0.0025	0.00035 (J)	<0.0025
2/19/2020	0.00026 (J)	<0.0025	0.00045 (J)	<0.0025		<0.0025
2/20/2020					0.00049 (J)	
3/23/2020						<0.0025
3/24/2020				<0.0025		
3/25/2020	<0.0025					
3/26/2020					0.00033 (J)	
3/27/2020		0.00053 (J)	0.00059 (J)			
9/14/2020	<0.0025					
9/15/2020		0.0002 (J)	0.00053 (J)	<0.0025	0.0003 (J)	0.00018 (J)
2/9/2021	<0.0025	<0.0025	0.00044 (J)			
2/10/2021				0.00028 (J)	0.00036 (J)	0.00019 (J)
3/30/2021					0.00025 (J)	0.00018 (J)
3/31/2021	<0.0025		0.00045 (J)			
4/1/2021				<0.0025		
4/6/2021		<0.0025				
8/18/2021				<0.0025	0.00035 (J)	
8/19/2021	<0.0025	<0.0025	0.00033 (J)			<0.0025
2/10/2022					<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-14	SGWC-15	SGWC-17	SGWC-18	SGWC-19
2/11/2022	<0.0025		0.0004 (J)	<0.0025		<0.0025
2/14/2022		<0.0025				
8/19/2022	<0.0025	<0.0025	0.00039 (J)			
8/22/2022						<0.0025
8/23/2022					<0.0025	
8/31/2022				<0.0025		
2/22/2023	<0.0025			<0.0025	<0.0025	<0.0025
2/23/2023		<0.0025	0.00038 (J)			
Mean	0.002403	0.002314	0.0005178	0.002403	0.001468	0.001996
Std. Dev.	0.0004671	0.0006171	0.0002966	0.0004629	0.001103	0.0009776
Upper Lim.	0.0025	0.0025	0.00046	0.0025	0.0025	0.0025
Lower Lim.	0.00026	0.00053	0.00037	0.00028	0.00035	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-20	SGWC-22	SGWC-6	SGWC-8
5/11/2016			<0.0025	<0.0025
5/12/2016	0.000742 (J)	<0.0025		
6/27/2016			<0.0025	<0.0025
6/29/2016	0.0007 (J)	<0.0025		
8/17/2016			<0.0025	<0.0025
8/19/2016		<0.0025		
8/22/2016	0.00074 (J)			
10/17/2016			<0.0025	<0.0025
10/18/2016	0.00075 (J)	<0.0025		
12/6/2016			<0.0025	<0.0025
12/7/2016		<0.0025		
12/8/2016	0.00093 (J)			
2/14/2017			<0.0025	<0.0025
2/16/2017	0.00091 (J)	<0.0025		
4/12/2017			<0.0025	<0.0025
4/13/2017	0.00065 (J)	<0.0025		
6/27/2017			<0.0025	<0.0025
6/28/2017	0.00073 (J)	<0.0025		
3/27/2018			<0.0025	<0.0025
3/28/2018	0.00079 (J)	<0.0025		
6/6/2018			<0.0025	<0.0025
6/7/2018	0.00086 (J)	<0.0025		
10/8/2018		<0.0025	<0.0025	
10/9/2018				<0.0025
10/18/2018	0.00079 (J)			
2/19/2019		<0.0025		
2/20/2019	0.00077 (J)		<0.0025	<0.0025
4/1/2019				<0.0025
4/2/2019	0.00043 (J)	<0.0025	<0.0025	
9/16/2019			<0.0025	
9/17/2019	0.00057 (J)			0.00019 (J)
9/18/2019		<0.0025		
2/18/2020	0.00052 (J)	<0.0025	<0.0025	<0.0025
3/23/2020	0.00077 (J)			
3/24/2020		<0.0025		
3/25/2020			0.0002 (J)	0.0003 (J)
9/14/2020			<0.0025	<0.0025
9/15/2020	0.00078 (J)	0.00033 (J)		
2/9/2021			<0.0025	<0.0025
2/10/2021	0.0009 (J)	<0.0025		
3/30/2021	0.00058 (J)			
3/31/2021		<0.0025		
4/1/2021			<0.0025	<0.0025
8/18/2021		<0.0025	<0.0025	<0.0025
8/19/2021	0.00091 (J)			
2/9/2022			<0.0025	
2/10/2022		<0.0025		<0.0025
2/11/2022	0.00074 (J)			
8/18/2022				<0.0025
8/19/2022			<0.0025	
8/22/2022	0.00062 (J)	<0.0025		
2/22/2023	0.00044 (J)		<0.0025	<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-20	SGWC-22	SGWC-6	SGWC-8
2/23/2023		<0.0025		
Mean	0.0007227	0.002406	0.0024	0.002304
Std. Dev.	0.0001428	0.0004525	0.0004796	0.0006499
Upper Lim.	0.0007974	0.0025	0.0025	0.0025
Lower Lim.	0.000648	0.00033	0.0002	0.0003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-11	SGWC-14	SGWC-15	SGWC-18	SGWC-19	SGWC-20
5/11/2016	<0.0025					
5/12/2016		0.000136 (J)	0.000265 (J)			0.000108 (J)
5/13/2016				0.00016 (J)	<0.0025	
6/28/2016	<0.0025	<0.0025	0.0003 (J)			
6/29/2016					<0.0025	0.0001 (J)
6/30/2016				0.0002 (J)		
8/17/2016	<0.0025					
8/18/2016		<0.0025	<0.0025			
8/22/2016				<0.0025	<0.0025	<0.0025
10/17/2016	<0.0025	<0.0025				
10/18/2016			<0.0025		<0.0025	<0.0025
10/19/2016				<0.0025		
12/6/2016	<0.0025					
12/7/2016		<0.0025	<0.0025	<0.0025		
12/8/2016					<0.0025	<0.0025
2/15/2017	<0.0025	<0.0025	0.00044 (J)			
2/16/2017				<0.0025	0.00036 (J)	<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025			
4/13/2017				<0.0025	<0.0025	<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025			
6/28/2017				<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025			
3/28/2018				<0.0025	<0.0025	<0.0025
10/8/2018		<0.0025				
10/9/2018					<0.0025	
10/16/2018	<0.0025		<0.0025			
10/18/2018				<0.0025		<0.0025
2/20/2019	<0.0025	<0.0025	0.00033 (J)	0.00023 (J)	<0.0025	<0.0025
4/1/2019	<0.0025	<0.0025	<0.0025			
4/2/2019				<0.0025	<0.0025	<0.0025
9/16/2019	<0.0025					
9/17/2019		<0.0025	0.00034 (J)	0.00018 (J)	<0.0025	<0.0025
2/18/2020	<0.0025					<0.0025
2/19/2020		<0.0025	0.0003 (J)		<0.0025	
2/20/2020				0.00032 (J)		
3/23/2020					<0.0025	<0.0025
3/25/2020	<0.0025					
3/26/2020				<0.0025		
3/27/2020		0.00057 (J)	0.00042 (J)			
9/14/2020	<0.0025					
9/15/2020		<0.0025	0.00032 (J)	<0.0025	<0.0025	<0.0025
2/9/2021	<0.0025	<0.0025	0.0003 (J)			
2/10/2021				0.00035 (J)	<0.0025	<0.0025
3/30/2021				<0.0025	<0.0025	<0.0025
3/31/2021			0.00027 (J)			
4/6/2021		<0.0025				
4/7/2021	<0.0025					
8/18/2021				<0.0025		
8/19/2021	0.00022 (J)	<0.0025	0.00026 (J)		<0.0025	<0.0025
2/10/2022	<0.0025			<0.0025		
2/11/2022			0.00024 (J)		<0.0025	<0.0025
2/14/2022		<0.0025				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-11	SGWC-14	SGWC-15	SGWC-18	SGWC-19	SGWC-20
8/18/2022	<0.0025					
8/19/2022		<0.0025	0.00024 (J)			
8/22/2022					<0.0025	<0.0025
8/23/2022				<0.0025		
2/22/2023	<0.0025			<0.0025	<0.0025	<0.0025
2/23/2023		<0.0025	0.00023 (J)			
Mean	0.002396	0.002305	0.001102	0.001884	0.002403	0.002282
Std. Dev.	0.0004861	0.0006353	0.001082	0.001031	0.0004562	0.000705
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.00022	0.00057	0.00027	0.00035	0.00036	0.000108

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-21	SGWC-6	SGWC-8
5/11/2016		<0.0025	<0.0025
5/12/2016	<0.0025		
6/27/2016		<0.0025	<0.0025
6/29/2016	<0.0025		
8/17/2016		<0.0025	<0.0025
8/22/2016	<0.0025		
10/17/2016		<0.0025	<0.0025
10/18/2016	<0.0025		
12/6/2016		<0.0025	<0.0025
12/7/2016	<0.0025		
2/14/2017		<0.0025	<0.0025
2/16/2017	0.00039 (J)		
4/12/2017		<0.0025	<0.0025
4/13/2017	<0.0025		
6/27/2017		<0.0025	<0.0025
6/28/2017	<0.0025		
3/27/2018		<0.0025	<0.0025
3/28/2018	<0.0025		
10/8/2018	<0.0025	<0.0025	
10/9/2018			<0.0025
2/20/2019	<0.0025	<0.0025	<0.0025
4/1/2019			<0.0025
4/2/2019	<0.0025	<0.0025	
9/16/2019		<0.0025	
9/17/2019	<0.0025		<0.0025
2/18/2020	<0.0025	<0.0025	<0.0025
3/23/2020	<0.0025		
3/25/2020		0.00022 (J)	0.00031 (J)
9/14/2020		<0.0025	<0.0025
9/15/2020	<0.0025		
2/9/2021		<0.0025	<0.0025
2/10/2021	<0.0025		
3/30/2021	<0.0025		
4/1/2021		<0.0025	<0.0025
8/18/2021	<0.0025	<0.0025	<0.0025
2/9/2022		<0.0025	
2/10/2022			<0.0025
2/11/2022	<0.0025		
8/18/2022			<0.0025
8/19/2022		<0.0025	
8/22/2022	<0.0025		
2/22/2023		<0.0025	<0.0025
2/23/2023	<0.0025		
Mean	0.002404	0.002396	0.0024
Std. Dev.	0.0004499	0.0004861	0.0004669
Upper Lim.	0.0025	0.0025	0.0025
Lower Lim.	0.00039	0.00022	0.00031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17
5/11/2016	<0.002					
5/12/2016		<0.002	<0.002	0.0335	0.00943 (J)	0.0077 (J)
6/28/2016	<0.002	<0.002	0.0008 (J)	0.0339	0.0093 (J)	
6/29/2016						0.0036 (J)
8/18/2016	<0.002	<0.002	<0.002	0.034	0.0085	0.0027
10/17/2016	0.0023 (J)	<0.002	0.0012 (J)			
10/18/2016				0.033	0.0088	
10/19/2016						0.00335 (JD)
12/6/2016	<0.002	<0.002				
12/7/2016			0.0012 (J)	0.032	0.0079	0.0027
2/15/2017	<0.002	<0.002	<0.002	0.03		0.0044
2/16/2017					0.0097	
4/12/2017	<0.002	<0.002	<0.002	0.035		
4/13/2017					0.0098	0.0047
6/27/2017	<0.002	<0.002	<0.002	0.035	0.0096	0.0029
3/27/2018	<0.002	<0.002	<0.002	0.031	0.0098	0.0045
6/6/2018	<0.002					
6/7/2018		<0.002	<0.002	0.032	0.01	0.0083
10/8/2018	<0.002	<0.002	<0.002		0.013	0.0055
10/16/2018				0.032		
2/20/2019	<0.002	<0.002	0.0016 (J)	0.038	0.013	0.0061
4/1/2019	<0.002	<0.002	<0.002	0.032		
4/2/2019					0.01	0.004
9/16/2019	<0.002					
9/17/2019		0.0017 (J)	0.0026	0.037	0.013	0.0078
2/19/2020	<0.002	<0.002	<0.002	0.038	0.014	0.0045
3/24/2020						0.0079
3/26/2020	<0.002					
3/27/2020		<0.002	0.0019 (J)	0.034	0.011	
9/14/2020	<0.002	<0.002				
9/15/2020			<0.002	0.034	0.012	0.0091
2/9/2021	<0.002	<0.002	<0.002	0.035	0.012	
2/10/2021						0.008
3/31/2021				0.034		
4/1/2021					0.012	0.0046
4/6/2021			<0.002			
4/7/2021	<0.002	<0.002				
8/18/2021						0.012
8/19/2021		<0.002	<0.002	0.032	0.011	
8/20/2021	<0.002					
2/10/2022	<0.002				0.012	
2/11/2022		<0.002		0.032		0.0079
2/14/2022			<0.002			
8/18/2022	<0.002	<0.002				
8/19/2022			0.0066	0.032		
8/31/2022					0.012	0.0088
2/22/2023						0.0084
2/23/2023	<0.002	<0.002	<0.002	0.029	0.012	
Mean	0.002013	0.001987	0.002083	0.03341	0.01086	0.006063
Std. Dev.	6.255E-05	6.255E-05	0.00105	0.002288	0.001667	0.002531
Upper Lim.	0.0023	0.002	0.0026	0.03461	0.01173	0.007387
Lower Lim.	0.002	0.0017	0.0019	0.03221	0.00999	0.004739

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016			<0.002	<0.002	<0.002	<0.002
5/13/2016	0.00771 (J)	0.0151				
6/29/2016		0.0141	0.0009 (J)	0.0012 (J)	0.0007 (J)	0.0013 (J)
6/30/2016	0.007 (J)					
8/19/2016					<0.002	<0.002
8/22/2016	0.007	0.015	<0.002	<0.002		
10/18/2016		0.013	<0.002	<0.002	<0.002	<0.002
10/19/2016	0.0064					
12/7/2016	0.0063			<0.002	<0.002	<0.002
12/8/2016		0.013	<0.002			
2/15/2017						<0.002
2/16/2017	0.007	0.015	<0.002	<0.002	<0.002	
4/13/2017	0.0061	0.016	<0.002	<0.002	<0.002	0.0014 (J)
6/28/2017	0.0059	0.016	<0.002	<0.002	<0.002	0.0025
3/27/2018						0.0012 (J)
3/28/2018	0.0082	0.014	<0.002	<0.002	<0.002	
6/7/2018			<0.002	<0.002	<0.002	<0.002
6/8/2018	0.0086	0.015				
10/8/2018				<0.002	0.0012 (J)	0.0017 (J)
10/9/2018		0.017				
10/18/2018	0.009		<0.002			
2/19/2019					<0.002	<0.002
2/20/2019	0.011	0.017	<0.002	0.0015 (J)		
4/2/2019	0.0092	0.014	<0.002	<0.002	0.0012 (J)	0.0011 (J)
9/17/2019	0.011	0.017	0.0022 (J)	0.0016 (J)		
9/18/2019					0.0024 (J)	0.0024 (J)
2/18/2020			<0.002	<0.002	0.0015 (J)	<0.002
2/19/2020		0.017				
2/20/2020	0.011					
3/23/2020		0.015	<0.002	<0.002		
3/24/2020					<0.002	<0.002
3/26/2020	0.0096					
9/15/2020	0.01	0.015	<0.002	0.002	0.0025	0.0017 (J)
2/10/2021	0.01	0.015	<0.002	<0.002	0.0015 (J)	0.0017 (J)
3/30/2021	0.0098	0.014	<0.002	<0.002		
3/31/2021					<0.002	0.0016 (J)
8/18/2021	0.019			0.0022	<0.002	0.0019 (J)
8/19/2021		0.014	<0.002			
2/10/2022	0.01				<0.002	0.0015 (J)
2/11/2022		0.015	<0.002	<0.002		
8/22/2022		0.013	<0.002	0.0016 (J)	0.0022	0.0017 (J)
8/23/2022	0.0095					
2/22/2023	0.0096	0.013	<0.002			
2/23/2023				<0.002	<0.002	0.0016 (J)
Mean	0.009083	0.01488	0.001961	0.001917	0.001878	0.001796
Std. Dev.	0.002722	0.001323	0.000235	0.0002229	0.0004033	0.0003496
Upper Lim.	0.01006	0.01557	0.0022	0.002	0.0022	0.0017
Lower Lim.	0.007644	0.01419	0.0009	0.002	0.0015	0.001317

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-8	PZ-41S	PZ-43S	PZ-44I	PZ-17I
5/11/2016	<0.002	<0.002				
6/27/2016	<0.002	<0.002				
8/17/2016	<0.002	<0.002				
10/17/2016		<0.002				
10/18/2016	<0.002					
12/6/2016	<0.002	<0.002				
2/14/2017	<0.002	<0.002				
4/12/2017	<0.002	0.0011 (J)				
6/27/2017	<0.002	<0.002				
3/27/2018	<0.002	0.0012 (J)				
6/6/2018	<0.002	0.0013 (J)				
10/9/2018	<0.002	0.0016 (J)				
10/16/2018					0.0046	
10/18/2018			<0.0025	<0.002		0.0049
2/20/2019	<0.002	0.0021 (J)				
4/1/2019	<0.002	0.0013 (J)				
9/17/2019	<0.002	0.0031				
2/18/2020	<0.002	0.0015 (J)				
3/25/2020		<0.002				
3/26/2020	<0.002					
9/14/2020	<0.002	<0.002				
2/9/2021	<0.002	<0.002				
4/1/2021	<0.002	<0.002				
8/18/2021	0.0026	<0.002				
2/9/2022	<0.002		0.0058	<0.002	<0.002	0.0036
2/10/2022		<0.002				
8/18/2022	<0.002	0.055 (o)				
8/24/2022			0.0051	<0.002	<0.002	0.0037
2/22/2023	<0.002	0.0023				
2/23/2023			0.0059			0.0042
2/24/2023				0.002		
2/28/2023					<0.002	
Mean	0.002026	0.001886	0.004825	0.002	0.00265	0.0041
Std. Dev.	0.0001251	0.0004291	0.00159	4.7E-11	0.0013	0.0005944
Upper Lim.	0.0026	0.0021	0.007952	0.002	0.0046	0.00545
Lower Lim.	0.002	0.0016	0.001698	0.002	0.002	0.00275

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-42I
10/18/2018	<0.002
2/9/2022	<0.002
8/22/2022	0.003
2/23/2023	<0.002
Mean	0.00225
Std. Dev.	0.0005
Upper Lim.	0.003
Lower Lim.	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	0.0191	0.0378	0.00648 (J)			
5/12/2016				0.0145	0.00605 (J)	0.267
6/28/2016	0.0192	0.0332	0.0051 (J)	0.011	0.0115	0.255
8/17/2016	0.022	0.03				
8/18/2016			0.0035	0.0099	0.011	0.26
10/17/2016	0.05	0.032	0.003	0.01	0.017	
10/18/2016						0.28
12/6/2016	0.04	0.029	0.0036	0.0079		
12/7/2016					0.0043	0.26
2/15/2017	0.038	0.029	0.004	0.0073	0.0059	0.24
4/12/2017	0.018	0.028	0.0039	0.0078	0.017	0.28
6/27/2017	0.014	0.029	0.0042	0.0068	0.013	0.29
3/27/2018	0.026	0.024	0.0035	0.0035	0.0083	0.27
6/6/2018	0.018	0.026	0.0038			
6/7/2018				0.0039	0.0025	0.3
10/8/2018			0.0037	0.0036	0.0071	
10/9/2018	0.03					
10/16/2018		0.023				0.27
2/20/2019	0.034	0.024	0.0032	0.004	0.011	0.26
4/1/2019	0.025	0.021	0.0029	0.003	0.014	0.26
9/16/2019		0.022	0.003			
9/17/2019	0.022			0.0024 (J)	0.0096	0.27
2/18/2020		0.018				
2/19/2020	0.027		0.0027	0.0018 (J)	0.0099	0.28
3/25/2020	0.029	0.024				
3/26/2020			0.0024 (J)			
3/27/2020				0.002 (J)	0.0093	0.28
9/14/2020	0.022	0.019	0.001 (J)	0.0022 (J)		
9/15/2020					0.0076	0.25
2/9/2021	0.03	0.019	0.0014 (J)	0.0024 (J)	0.0052	0.26
3/31/2021	0.026					0.26
4/6/2021					0.0072	
4/7/2021		0.019	0.0017 (J)	0.0018 (J)		
8/19/2021	0.022	0.014		0.0021 (J)	0.0047	0.27
8/20/2021			0.0019 (J)			
2/10/2022		0.021	0.00079 (J)			
2/11/2022	0.023			0.0015 (J)		0.23
2/14/2022					0.0065	
8/18/2022		0.012	0.001 (J)	0.0019 (J)		
8/19/2022	0.022				0.01	0.25
2/22/2023	0.025	0.023				
2/23/2023			0.0014 (J)	0.0016 (J)	0.0047	0.23
Mean	0.02614	0.02422	0.002964	0.004909	0.008841	0.264
Std. Dev.	0.008197	0.006208	0.0014	0.003711	0.0039	0.01733
Upper Lim.	0.03043	0.02746	0.003696	0.005973	0.01088	0.2731
Lower Lim.	0.02186	0.02097	0.002232	0.002727	0.006802	0.2549

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21
5/12/2016	0.00303 (J)	<0.0025			0.261	<0.0025
5/13/2016			0.116	<0.0025		
6/28/2016	0.0029 (J)					
6/29/2016		0.0007 (J)		0.0006 (J)	0.23	<0.0025
6/30/2016			0.112			
8/18/2016	0.0029	0.00078 (J)				
8/22/2016			0.13	0.00066 (J)	0.25	<0.0025
10/18/2016	0.0034			0.00095 (J)	0.26	<0.0025
10/19/2016		0.000845 (JD)	0.14			
12/7/2016	0.003	0.00056 (J)	0.11			<0.0025
12/8/2016				0.00078 (J)	0.26	
2/15/2017		0.00069 (J)				
2/16/2017	0.0033		0.11	0.00049 (J)	0.23	<0.0025
4/13/2017	0.0034	0.00049 (J)	0.094	<0.0025	0.19	<0.0025
6/27/2017	0.0037	0.00041 (J)				
6/28/2017			0.085	<0.0025	0.19	<0.0025
3/27/2018	0.0037	<0.0025				
3/28/2018			0.16	<0.0025	0.18	<0.0025
6/7/2018	0.0037	<0.0025			0.21	<0.0025
6/8/2018			0.19	<0.0025		
10/8/2018	0.0044	0.00046 (J)				<0.0025
10/9/2018				<0.0025		
10/18/2018			0.21		0.16	
2/20/2019	0.0038	0.00035 (J)	0.19	0.00012 (J)	0.18	0.00011 (J)
4/2/2019	0.0041	<0.0025	0.18	<0.0025	0.13	<0.0025
9/17/2019	0.0042	0.00048 (J)	0.16	0.00013 (J)	0.13	8.7E-05 (J)
2/18/2020					0.12	0.00014 (J)
2/19/2020	0.0047	0.00034 (J)		0.00015 (J)		
2/20/2020			0.14			
3/23/2020				<0.0025	0.22	0.00016 (J)
3/24/2020		0.00044 (J)				
3/26/2020			0.15			
3/27/2020	0.0047					
9/15/2020	0.0043	0.00041 (J)	0.12	0.00016 (J)	0.098	0.00022 (J)
2/9/2021	0.0045					
2/10/2021		0.00049 (J)	0.11	0.00013 (J)	0.17	0.00017 (J)
3/30/2021			0.11	<0.0025	0.15	0.00016 (J)
4/1/2021	0.0049	0.00041 (J)				
8/18/2021		0.00043 (J)	0.095			0.00016 (J)
8/19/2021	0.0051			<0.0025	0.2	
2/10/2022	0.0049		0.09			
2/11/2022		0.00036 (J)		0.00045 (J)	0.14	<0.0025
8/22/2022				<0.0025	0.11	<0.0025
8/23/2022			0.088			
8/31/2022	0.0054	0.00045 (J)				
2/22/2023		0.00043 (J)	0.072	<0.0025	0.082	
2/23/2023	0.0056					<0.0025
Mean	0.004071	0.0008489	0.1288	0.001505	0.1805	0.001683
Std. Dev.	0.0008159	0.0007859	0.03811	0.001082	0.05443	0.001144
Upper Lim.	0.004498	0.00078	0.1487	0.0025	0.2089	0.0025
Lower Lim.	0.003644	0.00041	0.1088	0.00045	0.152	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016			<0.0025	0.0116	0.00265 (J)	0.0156
5/12/2016	0.00619 (J)	<0.0025				
6/27/2016			0.002 (J)	0.0143	0.0012 (J)	
6/29/2016	0.0051 (J)	<0.0025				0.0147
8/17/2016			0.0018 (J)	0.012	0.00049 (J)	
8/19/2016	0.0045	<0.0025				
8/22/2016						0.017
10/17/2016			0.0016 (J)		<0.0025	
10/18/2016	0.0043	<0.0025		0.0099		0.017
12/6/2016			0.0012 (J)	0.011	<0.0025	
12/7/2016	0.0034	<0.0025				0.014
2/14/2017			0.0022 (J)	0.0093	<0.0025	
2/15/2017		<0.0025				
2/16/2017	0.0031					0.014
4/12/2017			0.0023 (J)	0.0062	<0.0025	
4/13/2017	0.0031	<0.0025				0.014
6/27/2017			0.0045	0.021	<0.0025	0.013
6/28/2017	0.0029	<0.0025				
3/27/2018		<0.0025	0.004	0.0054	<0.0025	
3/28/2018	0.0022 (J)					0.0087
6/6/2018			0.0021 (J)	0.0034	<0.0025	0.0064
6/7/2018	0.0022 (J)	<0.0025				
10/8/2018	0.0021 (J)	<0.0025	<0.0025			
10/9/2018				0.013	<0.0025	0.0049
2/19/2019	0.0018 (J)	<0.0025				
2/20/2019			0.00011 (J)	0.0057	0.00014 (J)	0.01
4/1/2019				0.0046	<0.0025	0.01
4/2/2019	0.0018 (J)	<0.0025	<0.0025			
9/16/2019			0.00013 (J)			0.001 (J)
9/17/2019				0.0039	0.00013 (J)	
9/18/2019	0.002 (J)	0.00013 (J)				
2/18/2020	0.0018 (J)	<0.0025	<0.0025	0.0067	<0.0025	
2/19/2020						0.0082
3/24/2020	0.0016 (J)	<0.0025				
3/25/2020			0.00027 (J)		0.00032 (J)	0.0064
3/26/2020				0.0033		
9/14/2020			<0.0025	0.0063	<0.0025	0.00048 (J)
9/15/2020	0.0014 (J)	<0.0025				
2/9/2021			<0.0025	0.0069	<0.0025	0.0032
2/10/2021	0.0015 (J)	<0.0025				
3/31/2021	0.0011 (J)	<0.0025				0.0046
4/1/2021			<0.0025	0.0029	<0.0025	
8/18/2021	0.001 (J)	<0.0025	0.00024 (J)	0.0021 (J)	0.00021 (J)	
8/19/2021						0.00072 (J)
2/9/2022			<0.0025	0.0024 (J)		
2/10/2022	0.0016 (J)	<0.0025			<0.0025	0.0022 (J)
8/18/2022				0.0012 (J)	0.00075 (J)	0.00084 (J)
8/19/2022			<0.0025			
8/22/2022	0.001 (J)	<0.0025				
2/22/2023			0.0003 (J)	0.0014 (J)	<0.0025	0.00062 (J)
2/23/2023	0.00069 (J)	<0.0025				
Mean	0.002451	0.002397	0.001967	0.007152	0.001887	0.008155

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
Std. Dev.	0.001428	0.0004942	0.001158	0.004932	0.0009849	0.00585
Upper Lim.	0.003198	0.0025	0.0025	0.009732	0.0025	0.01121
Lower Lim.	0.001704	0.00013	0.0012	0.004573	0.00075	0.005095

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-41S	PZ-39S	PZ-14S	PZ-13S	PZ-44I
10/16/2018					0.0021 (J)
10/17/2018		0.00051 (J)			
10/18/2018	0.0092				
9/18/2020				0.0057	
4/2/2021		0.0003 (J)	0.00019 (J)	0.007	
4/5/2021	0.0012 (J)				
8/18/2021			0.0003 (J)		
8/19/2021	0.0013 (J)	0.00028 (J)			
8/20/2021				0.006	
2/8/2022			0.00028 (J)	0.0052	
2/9/2022	0.00093 (J)	<0.0025			0.0024 (J)
8/23/2022		<0.0025	0.00046 (J)		
8/24/2022	0.001 (J)			0.0059	0.0016 (J)
2/23/2023	0.0004 (J)		<0.0025	0.0057	
2/24/2023		<0.0025			
2/28/2023					0.0019 (J)
Mean	0.002338	0.001432	0.000746	0.005917	0.002
Std. Dev.	0.003376	0.001173	0.0009853	0.0005981	0.0003367
Upper Lim.	0.005514	0.0025	0.0004952	0.006738	0.002764
Lower Lim.	0.000317	0.00028	0.000173	0.005095	0.001236

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	0.26 (U)	0.182 (U)	0.433			
5/12/2016				0.0531 (U)	0.106 (U)	0.344 (U)
6/28/2016	1.57	0.858	0.435 (U)	0.483 (U)	0.735 (U)	0.256 (U)
8/17/2016	0.548 (U)	0.367 (U)				
8/18/2016			0.214 (U)	0.286 (U)	0.212 (U)	0.503 (U)
10/17/2016	-0.0725 (U)	0.551	0.316 (U)	0.472	-0.187 (U)	
10/18/2016						0.171 (U)
12/6/2016	0.496	0.438	0.0575 (U)	0.903		
12/7/2016					0.701	0.375 (U)
2/15/2017	0.321 (U)	-0.0831 (U)	-0.0321 (U)	-0.223 (U)	0.155 (U)	0.0801 (U)
4/12/2017	-0.0397 (U)	0.343 (U)	0.00949 (U)	0.21 (U)	0.233 (U)	0.197 (U)
6/27/2017	0.47	0.369	0.183 (U)	0.0574 (U)	0.302	0.0274 (U)
3/27/2018	0.136 (U)	0.172 (U)	0.445	0.145 (U)	0.306 (U)	0.285 (U)
6/6/2018	0.123 (U)	0.153 (U)	0.0775 (U)			
6/7/2018				0.235 (U)	0.211 (U)	0.64
10/8/2018			0.865	0.64	0.636	
10/9/2018	0.387					
10/16/2018		1.06				0.731
2/20/2019	0.0159 (U)	0.708	0.161 (U)	0.222 (U)	0.147 (U)	0.573
4/1/2019	0.452	0.173 (U)	0.372	0.36	-0.138 (U)	0.0499 (U)
9/16/2019		0.251 (U)	0.569 (U)			
9/17/2019	0.226 (U)			0.143 (U)	0.264 (U)	0.441 (U)
2/18/2020		0.203 (U)				
2/19/2020	0.0222 (U)		0.166 (U)	0.218 (U)	0.0061 (U)	0.415 (U)
3/25/2020	0.253 (U)	0.204 (U)				
3/26/2020			0.604			
3/27/2020				0.235 (U)	0.206 (U)	0.39 (U)
9/14/2020	0.125 (U)	-0.0264 (U)	0.575	0.613		
9/15/2020					0.131 (U)	0.546
2/9/2021	-0.0573 (U)	0.114 (U)	0.146 (U)	0.307 (U)	-0.121 (U)	0.222 (U)
3/31/2021	0.188 (U)					0.311 (U)
4/6/2021					-0.0391 (U)	
4/7/2021		0.0576 (U)	0.0695 (U)	0.356 (U)		
8/19/2021	0.102 (U)	0.755		0.228 (U)	-0.0806 (U)	0.518
8/20/2021			0.0109 (U)			
2/10/2022		0.11 (U)	0.279 (U)			
2/11/2022	0.436			0.631		0.5
2/14/2022					0.377 (U)	
8/18/2022		0.393 (U)	0.384 (U)	0.377 (U)		
8/19/2022	0.606				0.378 (U)	0.459
2/22/2023	0.285 (U)	-0.172 (U)				
2/23/2023			0.784	0.506 (U)	0.0406 (U)	0.0665 (U)
Mean	0.2979	0.3122	0.3097	0.3242	0.1992	0.3522
Std. Dev.	0.3421	0.3057	0.2508	0.2401	0.2524	0.1968
Upper Lim.	0.452	0.472	0.4409	0.4498	0.3312	0.4551
Lower Lim.	0.102	0.1523	0.1786	0.1987	0.06715	0.2493

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21
5/12/2016	0.0196 (U)	0.134 (U)			0.556	0.216 (U)
5/13/2016			0.103 (U)	-0.115 (U)		
6/28/2016	0.418 (U)					
6/29/2016		0.391 (U)		0.396 (U)	0.162 (U)	0.253 (U)
6/30/2016			0.593 (U)			
8/18/2016	0.199 (U)	0.498 (U)				
8/22/2016			0.17 (U)	-0.102 (U)	0.433 (U)	0.115 (U)
10/18/2016	0.0404 (U)			0.352 (U)	0.741	0.593
10/19/2016		0.639	0.433			
12/7/2016	0.426	0.239 (U)	0.435 (U)			0.897
12/8/2016				0.431 (U)	1.06	
2/15/2017		0.175 (U)				
2/16/2017	0.163 (U)		0.101 (U)	0.146 (U)	0.382 (U)	0.132 (U)
4/13/2017	0.0522 (U)	-0.00846 (U)	-0.0014 (U)	0.127 (U)	0.189 (U)	0.287 (U)
6/27/2017	0.222 (U)	0.186 (U)				
6/28/2017			0.512	0.11 (U)	0.84	0.143 (U)
3/27/2018	0.387 (U)	0.249 (U)				
3/28/2018			0.428	0.247 (U)	0.334 (U)	0.38
6/7/2018	0.283 (U)	0.172 (U)			0.235 (U)	0.514
6/8/2018			0.32 (U)	0.0462 (U)		
10/8/2018	0.799	0.682				0.374
10/9/2018				0.584		
10/18/2018			0.304 (U)		0.399	
2/20/2019	0.0684 (U)	0.278 (U)	0.139 (U)	0.114 (U)	0.353	0.239 (U)
4/2/2019	0.167 (U)	-0.0476 (U)	0.336 (U)	0.11 (U)	0.271 (U)	0.218 (U)
9/17/2019	0.558	0.235 (U)	0.449	0.302 (U)	0.591	-0.04 (U)
2/18/2020					0.474	0.287 (U)
2/19/2020	0.0321 (U)	0.217 (U)		0.308 (U)		
2/20/2020			0.22 (U)			
3/23/2020				0.171 (U)	0.258 (U)	0.384
3/24/2020		0.426				
3/26/2020			0.366 (U)			
3/27/2020	0.305 (U)					
9/15/2020	-0.0426 (U)	0.661	1.74	1.55	0.831	1.6
2/9/2021	-0.00967 (U)					
2/10/2021		0.55	0.423 (U)	0.235 (U)	0.331 (U)	0.5
3/30/2021			0.439 (U)	0.511	0.572	0.955
4/1/2021	0.0901 (U)	0.0517 (U)				
8/18/2021		0.13 (U)	0.277 (U)			0.505
8/19/2021	0.037 (U)			-0.0514 (U)	-0.21 (U)	
2/10/2022	0.595		0.244 (U)			
2/11/2022		0.233 (U)		0.456 (U)	0.259 (U)	0.689
8/22/2022				0.356 (U)	0.475 (U)	0.565
8/23/2022			0.345 (U)			
8/31/2022	0.31 (U)	0.434 (U)				
2/22/2023		0.0917 (U)	0.0285 (U)	0.297 (U)	0.154 (U)	
2/23/2023	0.183 (U)					0.526 (U)
Mean	0.2305	0.2877	0.3654	0.2861	0.4213	0.4492
Std. Dev.	0.219	0.2107	0.3384	0.3334	0.2741	0.3498
Upper Lim.	0.3451	0.3978	0.435	0.396	0.5647	0.565
Lower Lim.	0.116	0.1775	0.17	0.11	0.278	0.218

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016			0.0394 (U)	0.214 (U)	2.05	0.134 (U)
5/12/2016	0.285 (U)	0.801				
6/27/2016			0.624 (U)	0.581 (U)	2.9	
6/29/2016	1.1	0.423 (U)				0.665 (U)
8/17/2016			0.572	0.665	2.57	
8/19/2016	0.367 (U)	0.869				
8/22/2016						0.391 (U)
10/17/2016			0.307 (U)		2.08	
10/18/2016	0.276 (U)	0.881		0.453		0.521
12/6/2016			0.122 (U)	0.368 (U)	2.25	
12/7/2016	0.318 (U)	0.455				0.367 (U)
2/14/2017			0.166 (U)	0.328 (U)	1.77	
2/15/2017		0.635				
2/16/2017	0.168 (U)					0.076 (U)
4/12/2017			0.355 (U)	0.206 (U)	2.72	
4/13/2017	0.3 (U)	0.413				0.239 (U)
6/27/2017			0.0783 (U)	0.598	2.07	0.268 (U)
6/28/2017	0.0844 (U)	0.331 (U)				
3/27/2018		0.61	0.0443 (U)	0.546	2.3	
3/28/2018	0.0661 (U)					0.378
6/6/2018			0.127 (U)	0.165 (U)	1.59	-0.0272 (U)
6/7/2018	0.222 (U)	0.64				
10/8/2018	0.499	0.437	0.77			
10/9/2018				0.385	3.01	0.565
2/19/2019	0.532	0.301 (U)				
2/20/2019			0.25 (U)	0.433	2.5	0.425
4/1/2019				0.675	1.91	-0.0113 (U)
4/2/2019	0.313 (U)	0.516	0.3 (U)			
9/16/2019			0.0805 (U)			-0.116 (U)
9/17/2019				0.341 (U)	2.04	
9/18/2019	0.101 (U)	0.285 (U)				
2/18/2020	0.0109 (U)	0.399	-0.0675 (U)	0.326 (U)	2.06	
2/19/2020						0.0604 (U)
3/24/2020	0.188 (U)	0.183 (U)				
3/25/2020			0.411 (U)		2.99	0.206 (U)
3/26/2020				0.151 (U)		
9/14/2020			0.334 (U)	0.123 (U)	2.16	0.502 (U)
9/15/2020	1.82	1.03				
2/9/2021			0.273 (U)	0.721	2.92	0.0162 (U)
2/10/2021	0.167 (U)	0.46				
3/31/2021	0.0687 (U)	0.37 (U)				0.153 (U)
4/1/2021			0.544	0.329 (U)	2.26	
8/18/2021	0.026 (U)	0.603	-0.0332 (U)	0.726	1.68	
8/19/2021						0.145 (U)
2/9/2022			0.145 (U)	0.659		
2/10/2022	0.346 (U)	0.204 (U)			2.08	0.179 (U)
8/18/2022				0.309 (U)	2.58	0.275 (U)
8/19/2022			0.243 (U)			
8/22/2022	0.632	0.0738 (U)				
2/22/2023			0.0662 (U)	-0.191 (U)	0.866	0.473 (U)
2/23/2023	0.322 (U)	0.314 (U)				
Mean	0.357	0.4884	0.25	0.3961	2.233	0.2558

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
Std. Dev.	0.3985	0.241	0.2195	0.2299	0.5102	0.211
Upper Lim.	0.459	0.6145	0.3648	0.5164	2.5	0.3662
Lower Lim.	0.1494	0.3624	0.1352	0.2759	1.966	0.1455

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	0.019 (J)	0.033 (J)	0.11 (J)			
5/12/2016				0.042 (J)	0.031 (J)	0.1071 (J)
6/28/2016	<0.1	0.08 (J)	0.18 (J)	0.15 (J)	0.03 (J)	0.26 (J)
8/17/2016	<0.1	<0.1				
8/18/2016			0.12 (J)	<0.1	<0.1	0.14 (J)
10/17/2016	<0.1	<0.1	0.082 (J)	<0.1	<0.1	
10/18/2016						0.12 (J)
12/6/2016	<0.1	<0.1	0.11 (J)	<0.1		
12/7/2016					<0.1	0.13 (J)
2/15/2017	<0.1	<0.1	0.13 (J)	<0.1	<0.1	0.12 (J)
4/12/2017	<0.1	<0.1	0.088 (J)	<0.1	<0.1	0.11 (J)
6/27/2017	<0.1	<0.1	0.1 (J)	<0.1	<0.1	0.13 (J)
10/11/2017		<0.1	<0.2	<0.1	<0.1	
10/12/2017	<0.1					0.13 (J)
3/27/2018	<0.1	<0.1	<0.2	<0.1	<0.1	0.12 (J)
6/6/2018	<0.1	<0.1	<0.2			
6/7/2018				<0.1	<0.1	0.14 (J)
10/8/2018			<0.2	<0.1	<0.1	
10/9/2018	<0.1					
10/16/2018		<0.1				0.14 (J)
2/20/2019	<0.1	<0.1	0.052 (J)	<0.1	<0.1	0.33
4/1/2019	<0.1	<0.1	0.048 (J)	<0.1	<0.1	0.072 (J)
9/16/2019		<0.1	0.065 (J)			
9/17/2019	<0.1			0.04 (J)	0.028 (J)	0.1
2/18/2020		<0.1				
2/19/2020	<0.1		0.064 (J)	0.027 (J)	0.026 (J)	0.13
3/25/2020	0.031 (J)	0.058 (J)				
3/26/2020			0.081 (J)			
3/27/2020				0.045 (J)	0.041 (J)	0.13
9/14/2020	<0.1	<0.1	0.042 (J)	<0.1		
9/15/2020					0.04 (J)	0.15
2/9/2021	<0.1	<0.1	0.074 (J)	<0.1	<0.1	0.14
3/31/2021	0.047 (J)					0.12
4/6/2021					<0.1	
4/7/2021		<0.1	0.066 (J)	0.053 (J)		
8/19/2021	<0.1	<0.1		<0.1	<0.1	0.12
8/20/2021			0.082 (J)			
2/10/2022		<0.1	0.06 (J)			
2/11/2022	0.03 (J)			0.045 (J)		0.14
2/14/2022					0.035 (J)	
8/18/2022		0.034 (J)	0.052 (J)	0.038 (J)		
8/19/2022	<0.1				<0.1	0.11
2/22/2023	0.045 (J)	0.063 (J)				
2/23/2023			0.089 (J)	0.077 (J)	0.068 (J)	0.11
Mean	0.08633	0.09033	0.104	0.08404	0.07913	0.1375
Std. Dev.	0.02764	0.02099	0.05334	0.03044	0.03106	0.05232
Upper Lim.	0.1	0.1	0.09457	0.1	0.1	0.14
Lower Lim.	0.047	0.08	0.06335	0.053	0.04	0.11

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21
5/12/2016	0.011 (J)	0.066 (J)			0.259 (J)	0.079 (J)
5/13/2016			0.0343 (J)	0.0126 (J)		
6/28/2016	0.09 (J)					
6/29/2016		0.17 (J)		0.18 (J)	0.45	0.15 (J)
6/30/2016			0.18 (J)			
8/18/2016	<0.1	<0.2				
8/22/2016			<0.1	<0.1	0.33	0.083 (J)
10/18/2016	<0.1			<0.1	0.26	<0.2
10/19/2016		<0.2	<0.1			
12/7/2016	<0.1	<0.2	<0.1			<0.2
12/8/2016				<0.1	0.28	
2/15/2017		0.089 (J)				
2/16/2017	<0.1		<0.1	<0.1	0.28	0.12 (J)
4/13/2017	<0.1	<0.2	<0.1	<0.1	0.2	<0.2
6/27/2017	<0.1	<0.2				
6/28/2017			<0.1	<0.1	0.22	0.1 (J)
10/12/2017	<0.1	<0.2	<0.1	<0.1	0.18 (J)	<0.2
3/27/2018	<0.1	<0.2				
3/28/2018			<0.1	<0.1	0.19 (J)	<0.2
6/7/2018	<0.1	<0.2			0.21	<0.2
6/8/2018			<0.1	<0.1		
10/8/2018	<0.1	<0.2				<0.2
10/9/2018				<0.1		
10/18/2018			<0.1		0.23	
2/20/2019	<0.1	0.034 (J)	<0.1	<0.1	0.2	0.051 (J)
4/2/2019	<0.1	0.045 (J)	0.05 (J)	<0.1	0.15 (J)	0.066 (J)
9/17/2019	<0.1	0.047 (J)	0.034 (J)	<0.1	0.14	0.077 (J)
2/18/2020					0.16	0.073 (J)
2/19/2020	<0.1	0.046 (J)		<0.1		
2/20/2020			<0.1			
3/23/2020				0.057 (J)	0.25	0.11
3/24/2020		0.058 (J)				
3/26/2020			0.091 (J)			
3/27/2020	0.027 (J)					
9/15/2020	0.037 (J)	0.052 (J)	<0.1	<0.1	0.15	0.061 (J)
2/9/2021	<0.1					
2/10/2021		0.03 (J)	<0.1	<0.1	0.19	0.049 (J)
3/30/2021			0.1 (J)	<0.1	0.18	0.074 (J)
4/1/2021	<0.1	0.051 (J)				
8/18/2021		0.087 (J)	0.099 (J)			0.12
8/19/2021	0.038 (J)			<0.1	0.17	
2/10/2022	<0.1		0.039 (J)			
2/11/2022		0.064 (J)		<0.1	0.14	0.092 (J)
8/22/2022				0.041 (J)	0.22	0.09 (J)
8/23/2022			0.1 (J)			
8/31/2022	0.058 (J)	0.058 (J)				
2/22/2023		0.06 (J)	0.061 (J)	0.046 (J)	0.13	
2/23/2023	0.045 (J)					0.087 (J)
Mean	0.08358	0.1149	0.09118	0.09319	0.2154	0.1201
Std. Dev.	0.02911	0.07228	0.03024	0.03034	0.07178	0.05687
Upper Lim.	0.1	0.2	0.1	0.1	0.2455	0.09401
Lower Lim.	0.058	0.051	0.091	0.057	0.1781	0.07035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016			0.133 (J)	0.245 (J)	0.362	0.076 (J)
5/12/2016	0.029 (J)	0.0341 (J)				
6/27/2016			0.21 (J)	0.23 (J)	0.45	
6/29/2016	0.04 (J)	0.04 (J)				0.13 (J)
8/17/2016			0.14 (J)	0.22	0.54	
8/19/2016	<0.1	<0.2				
8/22/2016						<0.2
10/17/2016			0.11 (J)		0.51	
10/18/2016	<0.1	<0.2		0.24		<0.2
12/6/2016			0.14 (J)	0.26	0.58	
12/7/2016	<0.1	<0.2				<0.2
2/14/2017			0.2	0.17 (J)	0.39	
2/15/2017		0.092 (J)				
2/16/2017	0.1 (J)					0.097 (J)
4/12/2017			0.089 (J)	0.2	0.41	
4/13/2017	<0.1	<0.2				<0.2
6/27/2017			0.085 (J)	0.23	0.47	<0.2
6/28/2017	<0.1	<0.2				
10/11/2017			0.089 (J)	0.21		
10/12/2017	<0.1	<0.2			0.47	<0.2
3/27/2018		<0.2	<0.2	0.19 (J)	0.4	
3/28/2018	<0.1					<0.2
6/6/2018			<0.2	0.2	0.4	<0.2
6/7/2018	<0.1	<0.2				
10/8/2018	<0.1	<0.2	<0.2			
10/9/2018				0.2	0.47	<0.2
2/19/2019	<0.1	0.055 (J)				
2/20/2019			0.092 (J)	0.2	0.32	0.074 (J)
4/1/2019				0.12 (J)	0.21	0.041 (J)
4/2/2019	<0.1	0.036 (J)	0.1 (J)			
9/16/2019			0.099 (J)			0.057 (J)
9/17/2019				0.2	0.47	
9/18/2019	0.028 (J)	0.044 (J)				
2/18/2020	<0.1	0.082 (J)	0.11	0.2	0.38	
2/19/2020						0.061 (J)
3/24/2020	<0.1	0.081 (J)				
3/25/2020			0.13		0.31	0.079 (J)
3/26/2020				0.14		
9/14/2020			0.076 (J)	0.11	0.29	0.037 (J)
9/15/2020	<0.1	0.052 (J)				
2/9/2021			0.12	0.22	0.37	0.05 (J)
2/10/2021	<0.1	0.046 (J)				
3/31/2021	<0.1	0.046 (J)				0.073 (J)
4/1/2021			0.14	0.25	0.38	
8/18/2021	0.054 (J)	0.11	0.19	0.31	0.48	
8/19/2021						0.078 (J)
2/9/2022			0.19	0.27		
2/10/2022	<0.1	0.066 (J)			0.44	0.098 (J)
8/18/2022				0.14	0.54	0.51
8/19/2022			0.12			
8/22/2022	0.038 (J)	0.052 (J)				
2/22/2023			0.11	0.16	0.52	0.076 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
2/23/2023	0.075 (J)	0.089 (J)				
Mean	0.086	0.1135	0.1239	0.2048	0.4234	0.139
Std. Dev.	0.02613	0.07082	0.03823	0.04808	0.08873	0.102
Upper Lim.	0.1	0.2	0.1404	0.2293	0.4687	0.09652
Lower Lim.	0.075	0.046	0.1037	0.1803	0.3781	0.05662

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-41S	PZ-43S	PZ-39S	PZ-44I	PZ-17I	PZ-40I
10/16/2018				<0.1		
10/17/2018			0.087 (J)			
10/18/2018	<0.1	<0.2			<0.2	<0.1
2/9/2022	<0.1	0.028 (J)	<0.1	<0.1	0.028 (J)	
2/10/2022						<0.1
8/23/2022			0.043 (J)			0.036 (J)
8/24/2022	0.035 (J)	0.037 (J)		0.031 (J)	0.046 (J)	
2/23/2023	0.06 (J)				0.049 (J)	
2/24/2023		0.042 (J)	0.062 (J)			0.047 (J)
2/28/2023				0.034 (J)		
Mean	0.07375	0.07675	0.073	0.06625	0.08075	0.07075
Std. Dev.	0.03198	0.08237	0.02547	0.03899	0.08004	0.03407
Upper Lim.	0.07588	0.05166	0.1049	0.1	0.06532	0.05399
Lower Lim.	0.01912	0.02394	0.02309	0.031	0.02147	0.02901

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-42I
10/18/2018	0.083 (J)
2/9/2022	0.033 (J)
8/22/2022	0.043 (J)
2/23/2023	0.079 (J)
Mean	0.0595
Std. Dev.	0.02521
Upper Lim.	0.1167
Lower Lim.	0.002259

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.001	<0.001				
5/12/2016			<0.001	<0.001	<0.001	<0.001
6/28/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/17/2016	<0.001					
8/18/2016		<0.001	<0.001	<0.001	<0.001	<0.001
10/17/2016	<0.001	<0.001	<0.001	<0.001		
10/18/2016					<0.001	<0.001
12/6/2016	<0.001	<0.001	<0.001			
12/7/2016				<0.001	<0.001	<0.001
2/15/2017	<0.001	<0.001	<0.001	<0.001	<0.001	
2/16/2017						<0.001
4/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	
4/13/2017						<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	0.00039 (J)	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001				
6/7/2018			<0.001	<0.001	<0.001	<0.001
10/8/2018		<0.001	<0.001	<0.001		<0.001
10/9/2018	<0.001					
10/16/2018					<0.001	
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	
4/2/2019						<0.001
9/16/2019		<0.001				
9/17/2019	0.00013 (J)		<0.001	0.00016 (J)	<0.001	<0.001
2/19/2020	0.00014 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001					
3/26/2020		<0.001				
3/27/2020			<0.001	0.00066 (J)	0.00023 (J)	0.00013 (J)
9/14/2020	<0.001	<0.001	<0.001			
9/15/2020				<0.001	<0.001	<0.001
2/9/2021	0.00013 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
3/31/2021	<0.001				<0.001	
4/1/2021						<0.001
4/6/2021				<0.001		
4/7/2021		<0.001	<0.001			
8/19/2021	<0.001		<0.001	<0.001	<0.001	<0.001
8/20/2021		<0.001				
2/10/2022		0.0002 (J)				<0.001
2/11/2022	<0.001		<0.001		<0.001	
2/14/2022				<0.001		
8/18/2022		<0.001	<0.001			
8/19/2022	<0.001			0.00028 (J)	<0.001	
8/31/2022						<0.001
2/22/2023	<0.001					
2/23/2023		<0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.000887	0.0009652	0.0009735	0.0009174	0.0009665	0.0009622
Std. Dev.	0.0002984	0.0001668	0.0001272	0.0002319	0.0001606	0.0001814
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00014	0.0002	0.00039	0.00066	0.00023	0.00013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22
5/12/2016	<0.001			<0.001	<0.001	<0.001
5/13/2016		<0.001	<0.001			
6/29/2016	<0.001		<0.001	0.0005 (J)	9E-05 (J)	<0.001
6/30/2016		<0.001				
8/18/2016	<0.001					
8/19/2016						<0.001
8/22/2016		<0.001	<0.001	<0.001	<0.001	
10/18/2016			<0.001	<0.001	<0.001	<0.001
10/19/2016	<0.001	<0.001				
12/7/2016	<0.001	<0.001			<0.001	<0.001
12/8/2016			<0.001	<0.001		
2/15/2017	<0.001					
2/16/2017		<0.001	<0.001	0.00035 (J)	<0.001	<0.001
4/13/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/27/2017	<0.001					
6/28/2017		<0.001	<0.001	0.00041 (J)	<0.001	<0.001
3/27/2018	<0.001					
3/28/2018		<0.001	<0.001	<0.001	<0.001	<0.001
6/7/2018	<0.001			<0.001	<0.001	<0.001
6/8/2018		<0.001	<0.001			
10/8/2018	<0.001				<0.001	<0.001
10/9/2018			<0.001			
10/18/2018		<0.001		<0.001		
2/19/2019						<0.001
2/20/2019	<0.001	<0.001	<0.001	0.00027 (J)	<0.001	
4/2/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/17/2019	<0.001	<0.001	<0.001	0.00025 (J)	<0.001	
9/18/2019						<0.001
2/18/2020				0.00025 (J)	<0.001	0.00018 (J)
2/19/2020	<0.001		<0.001			
2/20/2020		<0.001				
3/23/2020			<0.001	0.00023 (J)	<0.001	
3/24/2020	<0.001					<0.001
3/26/2020		<0.001				
9/15/2020	<0.001	<0.001	<0.001	0.00017 (J)	0.00022 (J)	0.00019 (J)
2/10/2021	0.00017 (J)	0.00029 (J)	<0.001	0.0003 (J)	0.00016 (J)	0.00016 (J)
3/30/2021		<0.001	<0.001	0.00018 (J)	0.0002 (J)	
3/31/2021						0.00015 (J)
4/1/2021	<0.001					
8/18/2021	<0.001	0.00071 (J)			0.00041 (J)	<0.001
8/19/2021			<0.001	0.00034 (J)		
2/10/2022		<0.001				<0.001
2/11/2022	<0.001		0.00033 (J)	0.00021 (J)	<0.001	
8/22/2022			<0.001	0.00028 (J)	0.0002 (J)	0.00017 (J)
8/23/2022		<0.001				
8/31/2022	<0.001					
2/22/2023	<0.001	<0.001	<0.001	<0.001		
2/23/2023					<0.001	<0.001
Mean	0.0009639	0.0009565	0.0009709	0.0005974	0.0007948	0.0008196
Std. Dev.	0.0001731	0.0001574	0.0001397	0.0003676	0.0003569	0.0003501
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00017	0.00071	0.00033	0.00025	0.00041	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-6	SGWC-7	SGWC-8	PZ-42I
5/11/2016		<0.001	<0.001	<0.001	
5/12/2016	<0.001				
6/27/2016		<0.001	<0.001	<0.001	
6/29/2016	9E-05 (J)				
8/17/2016		<0.001	0.00085 (J)	<0.001	
8/19/2016	<0.001				
10/17/2016		<0.001		<0.001	
10/18/2016	<0.001		<0.001		
12/6/2016		<0.001	<0.001	<0.001	
12/7/2016	<0.001				
2/14/2017		<0.001	<0.001	<0.001	
2/15/2017	<0.001				
4/12/2017		<0.001	<0.001	<0.001	
4/13/2017	<0.001				
6/27/2017		<0.001	<0.001	<0.001	
6/28/2017	<0.001				
3/27/2018	<0.001	<0.001	<0.001	<0.001	
6/6/2018		<0.001	<0.001	<0.001	
6/7/2018	<0.001				
10/8/2018	<0.001	<0.001			
10/9/2018			<0.001	<0.001	
10/18/2018					<0.001
2/19/2019	<0.001				
2/20/2019		<0.001	<0.001	<0.001	
4/1/2019			<0.001	<0.001	
4/2/2019	<0.001	<0.001			
9/16/2019		<0.001			
9/17/2019			<0.001	<0.001	
9/18/2019	<0.001				
2/18/2020	<0.001	<0.001	<0.001	<0.001	
3/24/2020	<0.001				
3/25/2020		0.0002 (J)		0.00029 (J)	
3/26/2020			<0.001		
9/14/2020		<0.001	<0.001	<0.001	
9/15/2020	<0.001				
2/9/2021		<0.001	0.00014 (J)	0.00062 (J)	
2/10/2021	<0.001				
3/31/2021	<0.001				
4/1/2021		<0.001	0.00015 (J)	<0.001	
8/18/2021	<0.001	<0.001	<0.001	<0.001	
2/9/2022		<0.001	<0.001		<0.001
2/10/2022	<0.001			<0.001	
8/18/2022			<0.001	<0.001	
8/19/2022		<0.001			
8/22/2022	<0.001				0.00019 (J)
2/22/2023		<0.001	<0.001	<0.001	
2/23/2023	<0.001				<0.001
Mean	0.0009604	0.0009652	0.0009191	0.0009526	0.0007975
Std. Dev.	0.0001897	0.0001668	0.0002463	0.0001647	0.000405
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	0.0002	0.00085	0.00062	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	<0.005	<0.005	<0.005			
5/12/2016				<0.005	<0.005	<0.005
6/28/2016	<0.005	0.0013 (J)	<0.005	<0.005	<0.005	0.0024 (J)
8/17/2016	<0.005	<0.005				
8/18/2016			<0.005	<0.005	<0.005	<0.005
10/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005	
10/18/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005	<0.005		
12/7/2016					<0.005	<0.005
2/15/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/12/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/27/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/27/2018	<0.005	0.0029 (J)	<0.005	<0.005	<0.005	0.0034 (J)
6/6/2018	<0.005	0.0017 (J)	<0.005			
6/7/2018				<0.005	<0.005	0.003 (J)
10/8/2018			<0.005	0.0014 (J)	0.0011 (J)	
10/9/2018	<0.005					
10/16/2018		0.0031 (J)				0.0034 (J)
2/20/2019	<0.005	0.0031 (J)	<0.005	<0.005	<0.005	0.0038 (J)
4/1/2019	<0.005	0.0017 (J)	0.0011 (J)	<0.005	<0.005	0.0025 (J)
9/16/2019		<0.005	<0.005			
9/17/2019	<0.005			<0.005	<0.005	0.0037
2/18/2020		<0.005				
2/19/2020	<0.005		<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005	<0.005				
3/26/2020			<0.005			
3/27/2020				<0.005	<0.005	0.0038 (J)
9/14/2020	<0.005	<0.005	<0.005	<0.005		
9/15/2020					<0.005	0.0037 (J)
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/31/2021	<0.005					<0.005
4/6/2021					<0.005	
4/7/2021		<0.005	<0.005	<0.005		
8/19/2021	<0.005	<0.005		<0.005	<0.005	<0.005
8/20/2021			<0.005			
2/10/2022		0.0022 (J)	<0.005			
2/11/2022	<0.005			<0.005		0.0027 (J)
2/14/2022					<0.005	
8/18/2022		0.0033 (J)	0.0012 (J)	0.0012 (J)		
8/19/2022	0.0011 (J)				0.0015 (J)	0.0038 (J)
2/22/2023	<0.005	0.0024 (J)				
2/23/2023			<0.005	<0.005	<0.005	0.0022 (J)
Mean	0.00483	0.003987	0.004665	0.004678	0.004678	0.004061
Std. Dev.	0.0008132	0.001365	0.001109	0.001066	0.001068	0.001015
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.0029	0.0012	0.0014	0.0015	0.0034

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21
5/12/2016	<0.005	<0.005			<0.05 (O)	<0.005
5/13/2016			<0.005	<0.005		
6/28/2016	<0.005					
6/29/2016		<0.005		<0.005	0.0043 (J)	<0.005
6/30/2016			0.0032 (J)			
8/18/2016	<0.005	<0.005				
8/22/2016			<0.005	<0.005	0.0051	<0.005
10/18/2016	<0.005			<0.005	0.0038 (J)	<0.005
10/19/2016		<0.005	0.0042 (J)			
12/7/2016	<0.005	<0.005	<0.005			<0.005
12/8/2016				<0.005	0.0043 (J)	
2/15/2017		<0.005				
2/16/2017	<0.005		0.0034 (J)	<0.005	0.0047 (J)	<0.005
4/13/2017	<0.005	<0.005	<0.005	<0.005	0.004 (J)	<0.005
6/27/2017	<0.005	<0.005				
6/28/2017			<0.005	<0.005	0.0032 (J)	<0.005
3/27/2018	<0.005	0.0014 (J)				
3/28/2018			0.0056	<0.005	0.0053	0.0038 (J)
6/7/2018	<0.005	<0.005			0.0038 (J)	0.0013 (J)
6/8/2018			0.0042 (J)	0.0022 (J)		
10/8/2018	0.0015 (J)	<0.005				0.0019 (J)
10/9/2018				<0.005		
10/18/2018			0.0054		0.0062	
2/20/2019	<0.005	<0.005	0.0054	<0.005	0.0048 (J)	<0.005
4/2/2019	<0.005	<0.005	0.0041 (J)	0.0021 (J)	0.0046 (J)	0.0027 (J)
9/17/2019	<0.005	<0.005	0.005	<0.005	0.0042	<0.005
2/18/2020					0.0036 (J)	<0.005
2/19/2020	<0.005	<0.005		<0.005		
2/20/2020			0.0045 (J)			
3/23/2020				<0.005	0.0045 (J)	<0.005
3/24/2020		<0.005				
3/26/2020			0.0046 (J)			
3/27/2020	<0.005					
9/15/2020	<0.005	<0.005	0.0049 (J)	<0.005	0.0037 (J)	<0.005
2/9/2021	<0.005					
2/10/2021		<0.005	0.0055	<0.005	0.0047 (J)	<0.005
3/30/2021			0.0043 (J)	<0.005	<0.005	<0.005
4/1/2021	<0.005	<0.005				
8/18/2021		<0.005	0.0047 (J)			<0.005
8/19/2021	<0.005			<0.005	0.0046 (J)	
2/10/2022	<0.005		0.0039 (J)			
2/11/2022		<0.005		0.0072	0.0037 (J)	0.0011 (J)
8/22/2022				0.0012 (J)	0.003 (J)	<0.005
8/23/2022			0.0032 (J)			
8/31/2022	0.0012 (J)	<0.005				
2/22/2023		<0.005	0.0035 (J)	0.0015 (J)	0.0025 (J)	
2/23/2023	<0.005					<0.005
Mean	0.004683	0.004843	0.004548	0.00453	0.004141	0.004383
Std. Dev.	0.001053	0.0007507	0.0007329	0.001393	0.000891	0.001288
Upper Lim.	0.005	0.005	0.004633	0.005	0.004619	0.005
Lower Lim.	0.0015	0.0014	0.003856	0.0022	0.003663	0.0038

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016			<0.005	<0.05 (O)	<0.005	<0.005
5/12/2016	<0.005	<0.005				
6/27/2016			<0.005	0.0031 (J)	0.0013 (J)	
6/29/2016	<0.005	0.0027 (J)				<0.005
8/17/2016			<0.005	0.0046 (J)	<0.005	
8/19/2016	<0.005	<0.005				
8/22/2016						<0.005
10/17/2016			<0.005		<0.005	
10/18/2016	<0.005	0.0032 (J)		0.0036 (J)		<0.005
12/6/2016			<0.005	0.0043 (J)	<0.005	
12/7/2016	<0.005	0.0043 (J)				<0.005
2/14/2017			<0.005	0.0043 (J)	<0.005	
2/15/2017		<0.005				
2/16/2017	<0.005					<0.005
4/12/2017			<0.005	0.0051	<0.005	
4/13/2017	<0.005	0.0036 (J)				<0.005
6/27/2017			<0.005	0.0033 (J)	<0.005	<0.005
6/28/2017	<0.005	0.0032 (J)				
3/27/2018		0.005	<0.005	0.0061	0.0023 (J)	
3/28/2018	0.0033 (J)					<0.005
6/6/2018			<0.005	0.004 (J)	0.0018 (J)	<0.005
6/7/2018	<0.005	0.0027 (J)				
10/8/2018	0.0011 (J)	0.0035 (J)	<0.005			
10/9/2018				0.0053	0.002 (J)	<0.005
2/19/2019	<0.005	<0.005				
2/20/2019			<0.005	0.006	<0.005	<0.005
4/1/2019				0.0058	0.0021 (J)	<0.005
4/2/2019	0.0026 (J)	0.0041 (J)	<0.005			
9/16/2019			<0.005			<0.005
9/17/2019				0.0049	<0.005	
9/18/2019	<0.005	0.0043				
2/18/2020	<0.005	<0.005	<0.005	0.0052	<0.005	
2/19/2020						<0.005
3/24/2020	<0.005	<0.005				
3/25/2020			<0.005		<0.005	<0.005
3/26/2020				0.006		
9/14/2020			<0.005	0.0051	<0.005	<0.005
9/15/2020	<0.005	<0.005				
2/9/2021			<0.005	0.0052	<0.005	<0.005
2/10/2021	<0.005	<0.005				
3/31/2021	<0.005	<0.005				<0.005
4/1/2021			<0.005	0.0053	<0.005	
8/18/2021	<0.005	<0.005	<0.005	0.0034 (J)	<0.005	
8/19/2021						<0.005
2/9/2022			0.0013 (J)	0.0048 (J)		
2/10/2022	<0.005	0.0029 (J)			0.0015 (J)	<0.005
8/18/2022				0.0061	0.0025 (J)	0.0014 (J)
8/19/2022			0.0023 (J)			
8/22/2022	0.00087 (J)	0.002 (J)				
2/22/2023			<0.005	0.0056	0.0014 (J)	<0.005
2/23/2023	0.0019 (J)	0.0042 (J)				
Mean	0.004338	0.004161	0.004722	0.004868	0.003909	0.004843

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-22	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9
Std. Dev.	0.001356	0.000975	0.0009342	0.0009393	0.001548	0.0007507
Upper Lim.	0.005	0.005	0.005	0.005372	0.005	0.005
Lower Lim.	0.0033	0.0032	0.0023	0.004364	0.0021	0.0014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-41S	PZ-43S	PZ-39S	PZ-14S	PZ-44I	PZ-17I
10/16/2018					0.069	
10/17/2018			0.0027 (J)			
10/18/2018	0.0029 (J)	0.0015 (J)				0.0017 (J)
3/2/2020					<0.005	
4/2/2021				<0.005		
4/7/2021					0.02	
8/18/2021				<0.005	0.0095	
2/8/2022				0.0015 (J)		
2/9/2022	<0.005	0.0031 (J)	0.012		0.01	<0.005
8/23/2022			0.022	0.0011 (J)		
8/24/2022	0.00099 (J)	0.0032 (J)			0.011	<0.005
2/23/2023	<0.005			0.0022 (J)		0.0016 (J)
2/24/2023		0.0046 (J)	0.0071			
2/28/2023					0.014	
Mean	0.003472	0.0031	0.01095	0.00296	0.01943	0.003325
Std. Dev.	0.001928	0.001268	0.008288	0.001903	0.02248	0.001935
Upper Lim.	0.004113	0.005978	0.02977	0.002362	0.04066	0.005
Lower Lim.	-0.0002232	0.0002222	-0.007867	0.0008382	0.002994	0.0016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-40I	PZ-42I
10/18/2018	0.015	0.004 (J)
2/9/2022		0.0026 (J)
2/10/2022	0.01	
8/22/2022		0.0036 (J)
8/23/2022	0.01	
2/23/2023		0.0064
2/24/2023	0.011	
Mean	0.0115	0.00415
Std. Dev.	0.00238	0.001611
Upper Lim.	0.015	0.007808
Lower Lim.	0.01	0.0004915

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	<0.0002	<0.0002	<0.0002			
5/12/2016				<0.0002	<0.0002	<0.0002
6/28/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002				
8/18/2016			<0.0002	<0.0002	<0.0002	0.00011 (J)
10/17/2016	<0.0002	<0.0002	<0.0002	<0.0002	8.9E-05 (J)	
10/18/2016						0.00012 (J)
12/6/2016	0.00013 (J)	0.0001 (J)	9.3E-05 (J)	0.00011 (J)		
12/7/2016					0.00012 (J)	0.00017 (J)
2/15/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00011 (J)
4/12/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	7.2E-05 (J)
6/27/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.4E-05 (J)
3/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	0.0001 (J)	0.00014 (J)
6/6/2018	<0.0002	<0.0002	<0.0002			
6/7/2018				<0.0002	<0.0002	0.00013 (J)
10/8/2018			<0.0002	<0.0002	<0.0002	
10/9/2018	<0.0002					
10/16/2018		<0.0002				<0.0002
2/20/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/1/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/16/2019		<0.0002	<0.0002			
9/17/2019	<0.0002			<0.0002	<0.0002	<0.0002
2/18/2020		<0.0002				
2/19/2020	<0.0002		<0.0002	<0.0002	0.0002	0.00016 (J)
3/25/2020	<0.0002	<0.0002				
3/26/2020			<0.0002			
3/27/2020				<0.0002	<0.0002	0.00011 (J)
9/14/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/15/2020					<0.0002	<0.0002
2/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00013 (J)
3/31/2021	<0.0002					0.00018 (J)
4/6/2021					<0.0002	
4/7/2021		<0.0002	<0.0002	<0.0002		
8/19/2021	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/20/2021			<0.0002			
2/10/2022		<0.0002	<0.0002			
2/11/2022	<0.0002			<0.0002		<0.0002
2/14/2022					<0.0002	
8/18/2022		<0.0002	<0.0002	<0.0002		
8/19/2022	<0.0002				<0.0002	<0.0002
2/22/2023	<0.0002	<0.0002				
2/23/2023			<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.000197	0.0001957	0.0001953	0.0001961	0.0001873	0.0001616
Std. Dev.	1.46E-05	2.085E-05	2.231E-05	1.877E-05	3.374E-05	4.414E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.0001	9.3E-05	0.00011	0.00012	0.00012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-20	SGWC-21	SGWC-22
5/12/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
5/13/2016			<0.0002			
6/28/2016	<0.0002					
6/29/2016		<0.0002		<0.0002	<0.0002	<0.0002
6/30/2016			<0.0002			
8/18/2016	<0.0002	<0.0002				
8/19/2016						<0.0002
8/22/2016			0.00014 (J)	7.3E-05 (J)	<0.0002	
10/18/2016	<0.0002			<0.0002	<0.0002	<0.0002
10/19/2016		<0.0002	<0.0002			
12/7/2016	7.6E-05 (J)	0.00011 (J)	0.00014 (J)		0.0001 (J)	9.9E-05 (J)
12/8/2016				<0.0002		
2/15/2017		<0.0002				
2/16/2017	<0.0002		8.4E-05 (J)	<0.0002	<0.0002	<0.0002
4/13/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002	<0.0002				
6/28/2017			<0.0002	<0.0002	<0.0002	<0.0002
3/27/2018	<0.0002	<0.0002				
3/28/2018			8.3E-05 (J)	<0.0002	<0.0002	<0.0002
6/7/2018	<0.0002	0.00011 (J)		8.2E-05 (J)	<0.0002	<0.0002
6/8/2018			0.00014 (J)			
10/8/2018	<0.0002	<0.0002			<0.0002	<0.0002
10/18/2018			0.00021	<0.0002		
2/19/2019						<0.0002
2/20/2019	<0.0002	<0.0002	0.00026	<0.0002	<0.0002	
4/2/2019	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002
9/17/2019	<0.0002	<0.0002	0.00014 (J)	<0.0002	<0.0002	
9/18/2019						<0.0002
2/18/2020				<0.0002	<0.0002	<0.0002
2/19/2020	<0.0002	<0.0002				
2/20/2020			0.00022			
3/23/2020				<0.0002	<0.0002	
3/24/2020		<0.0002				<0.0002
3/26/2020			0.00019 (J)			
3/27/2020	<0.0002					
9/15/2020	<0.0002	<0.0002	0.00013 (J)	<0.0002	<0.0002	<0.0002
2/9/2021	<0.0002					
2/10/2021		<0.0002	0.00018 (J)	<0.0002	<0.0002	<0.0002
3/30/2021			0.00022	0.00013 (J)	<0.0002	
3/31/2021						<0.0002
4/1/2021	<0.0002	<0.0002				
8/18/2021		0.00017 (J)	0.00022		<0.0002	<0.0002
8/19/2021	<0.0002			<0.0002		
2/10/2022	<0.0002		<0.0002			<0.0002
2/11/2022		<0.0002		<0.0002	<0.0002	
8/31/2022	<0.0002	0.00013 (J)				
10/31/2022			<0.0002	<0.0002	<0.0002	<0.0002
2/22/2023		<0.0002	<0.0002	<0.0002		
2/23/2023	<0.0002				<0.0002	<0.0002
Mean	0.0001946	0.0001878	0.0001807	0.0001863	0.0001957	0.0001956
Std. Dev.	2.586E-05	2.907E-05	4.437E-05	3.732E-05	2.085E-05	2.106E-05
Upper Lim.	0.0002	0.0002	0.000177	0.0002	0.0002	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-17	SGWC-18	SGWC-20	SGWC-21	SGWC-22
Lower Lim.	7.6E-05	0.00017	0.0001184	0.00013	0.0001	9.9E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-44I
5/11/2016		<0.0002	<0.0002	<0.0002	<0.0002	
5/12/2016	<0.0002					
6/27/2016		<0.0002	<0.0002	<0.0002		
6/29/2016	<0.0002				<0.0002	
8/17/2016		<0.0002	<0.0002	<0.0002		
8/19/2016	7.1E-05 (J)					
8/22/2016					<0.0002	
10/17/2016		<0.0002		<0.0002		
10/18/2016	<0.0002		<0.0002		<0.0002	
12/6/2016		0.00011 (J)	0.00011 (J)	7.6E-05 (J)		
12/7/2016	0.00011 (J)				0.0001 (J)	
2/14/2017		<0.0002	<0.0002	<0.0002		
2/15/2017	<0.0002					
2/16/2017					<0.0002	
4/12/2017		<0.0002	<0.0002	<0.0002		
4/13/2017	<0.0002				<0.0002	
6/27/2017		<0.0002	<0.0002	<0.0002	<0.0002	
6/28/2017	<0.0002					
3/27/2018	<0.0002	<0.0002	<0.0002	<0.0002		
3/28/2018					<0.0002	
6/6/2018		<0.0002	<0.0002	<0.0002	<0.0002	
6/7/2018	0.00028					
10/8/2018	<0.0002	<0.0002				
10/9/2018			<0.0002	<0.0002	<0.0002	
10/16/2018						8.4E-05 (J)
2/19/2019	<0.0002					
2/20/2019		<0.0002	<0.0002	<0.0002	<0.0002	
4/1/2019			<0.0002	<0.0002	<0.0002	
4/2/2019	<0.0002	<0.0002				
9/16/2019		<0.0002			<0.0002	
9/17/2019			<0.0002	<0.0002		
9/18/2019	<0.0002					
2/18/2020	0.00011 (J)	<0.0002	<0.0002	<0.0002		
2/19/2020					<0.0002	
3/24/2020	<0.0002					
3/25/2020		<0.0002		<0.0002	<0.0002	
3/26/2020			<0.0002			
9/14/2020		<0.0002	<0.0002	<0.0002	<0.0002	
9/15/2020	<0.0002					
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2021	<0.0002					
3/31/2021	<0.0002				<0.0002	
4/1/2021		<0.0002	<0.0002	<0.0002		
8/18/2021	<0.0002	<0.0002	<0.0002	<0.0002		
8/19/2021					<0.0002	
2/9/2022		<0.0002	<0.0002			<0.0002
2/10/2022	<0.0002			<0.0002	<0.0002	
8/18/2022			<0.0002	<0.0002	<0.0002	
8/19/2022		<0.0002				
8/24/2022						<0.0002
10/31/2022	<0.0002					
2/22/2023		<0.0002	<0.0002	<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 1:56 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-6	SGWC-7	SGWC-8	SGWC-9	PZ-44I
2/23/2023	<0.0002					
2/28/2023						<0.0002
Mean	0.00019	0.0001961	0.0001961	0.0001946	0.0001957	0.000171
Std. Dev.	4.099E-05	1.877E-05	1.877E-05	2.586E-05	2.085E-05	5.8E-05
Upper Lim.	0.00028	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00011	0.00011	0.00011	7.6E-05	0.0001	8.4E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-14	SGWC-23	SGWC-6	SGWC-7	SGWC-8
5/11/2016	<0.015			<0.015	0.00343 (J)	<0.015
5/12/2016		<0.015	<0.015			
6/27/2016				0.0007 (J)	0.0033 (J)	0.0008 (J)
6/28/2016	0.0012 (J)	<0.015				
6/29/2016			<0.015			
8/17/2016				<0.015	0.002 (J)	<0.015
8/18/2016	0.0011 (J)	<0.015				
8/19/2016			<0.015			
10/17/2016	<0.015	<0.015		<0.015		<0.015
10/18/2016			<0.015		0.0012 (J)	
12/6/2016	<0.015			<0.015	0.0021 (J)	<0.015
12/7/2016		<0.015	<0.015			
2/14/2017				<0.015	<0.015	<0.015
2/15/2017	<0.015	0.003 (J)	<0.015			
4/12/2017	<0.015	<0.015		<0.015	0.0033 (J)	<0.015
4/13/2017			<0.015			
6/27/2017	<0.015	<0.015		0.00099 (J)	0.0021 (J)	<0.015
6/28/2017			<0.015			
3/27/2018	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
10/8/2018	<0.015	<0.015	<0.015	<0.015		
10/9/2018					<0.015	<0.015
2/19/2019			<0.015			
2/20/2019	<0.015	<0.015		<0.015	0.0013 (J)	<0.015
4/1/2019	<0.015	<0.015			<0.015	<0.015
4/2/2019			<0.015	<0.015		
9/16/2019	<0.015			<0.015		
9/17/2019		<0.015			0.0014 (J)	<0.015
9/18/2019			<0.015			
2/18/2020			<0.015	<0.015	0.0014 (J)	<0.015
2/19/2020	<0.015	<0.015				
3/24/2020			<0.015			
3/25/2020				<0.015		<0.015
3/26/2020	<0.015				0.001 (J)	
3/27/2020		0.00081 (J)				
9/14/2020	<0.015			<0.015	0.0012 (J)	<0.015
9/15/2020		<0.015	<0.015			
2/9/2021	<0.015	<0.015		<0.015	0.0014 (J)	<0.015
2/10/2021			<0.015			
3/31/2021			<0.015			
4/1/2021				<0.015	0.0009 (J)	<0.015
4/6/2021		<0.015				
4/7/2021	<0.015					
8/18/2021			<0.015	<0.015	0.0016 (J)	<0.015
8/19/2021		<0.015				
8/20/2021	<0.015					
2/9/2022				<0.015	0.0012 (J)	
2/10/2022	<0.015		<0.015			<0.015
2/14/2022		<0.015				
8/18/2022	<0.015				0.0011 (J)	0.00073 (J)
8/19/2022		<0.015		<0.015		
8/22/2022			<0.015			
2/22/2023				<0.015	<0.015	<0.015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-12	SGWC-14	SGWC-23	SGWC-6	SGWC-7	SGWC-8
2/23/2023	<0.015	<0.015	0.00062 (J)			
Mean	0.01374	0.01381	0.01435	0.01371	0.00477	0.01371
Std. Dev.	0.004075	0.003868	0.003066	0.004165	0.005725	0.004189
Upper Lim.	0.015	0.015	0.015	0.015	0.00343	0.015
Lower Lim.	0.0012	0.003	0.00062	0.00099	0.0012	0.0008

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-9
5/11/2016	<0.015
6/29/2016	0.0021 (J)
8/22/2016	0.00099 (J)
10/18/2016	0.0014 (J)
12/7/2016	0.001 (J)
2/16/2017	<0.015
4/13/2017	0.001 (J)
6/27/2017	<0.015
3/28/2018	<0.015
10/9/2018	<0.015
2/20/2019	0.00075 (J)
4/1/2019	<0.015
9/16/2019	0.00067 (J)
2/19/2020	0.00063 (J)
3/25/2020	<0.015
9/14/2020	<0.015
2/9/2021	0.00063 (J)
3/31/2021	<0.015
8/19/2021	<0.015
2/10/2022	<0.015
8/18/2022	<0.015
2/22/2023	<0.015
Mean	0.00928
Std. Dev.	0.007042
Upper Lim.	0.015
Lower Lim.	0.00099

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.005	<0.005				
5/12/2016			<0.005	<0.005	0.00965 (J)	<0.005
6/28/2016	<0.005	<0.005	<0.005	<0.005	0.0101	<0.005
8/17/2016	<0.005					
8/18/2016		0.00031 (J)	<0.005	<0.005	0.0014	0.00053 (J)
10/17/2016	<0.005	<0.005	0.0003 (J)	<0.005		
10/18/2016					0.0013	<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016				<0.005	0.0007 (J)	<0.005
2/15/2017	<0.005	<0.005	<0.005	0.00066 (J)	0.00075 (J)	
2/16/2017						<0.005
4/12/2017	<0.005	<0.005	<0.005	<0.005	<0.005	
4/13/2017						<0.005
6/27/2017	<0.005	<0.005	<0.005	<0.005	0.0013	0.001 (J)
3/27/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/6/2018	<0.005	<0.005				
6/7/2018			0.00064 (J)	0.00084 (J)	0.0014	0.0013
10/8/2018		<0.005	<0.005	<0.005		0.0014
10/16/2018	0.00046 (J)				0.0021	
2/20/2019	<0.005	<0.005	<0.005	<0.005	0.0034	0.0012 (J)
4/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	
4/2/2019						0.0021
9/16/2019	<0.005	<0.005				
9/17/2019			<0.005	<0.005	<0.005	<0.005
2/18/2020	<0.005					
2/19/2020		<0.005	<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005					
3/26/2020		<0.005				
3/27/2020			<0.005	<0.005	<0.005	<0.005
9/14/2020	<0.005	<0.005	<0.005			
9/15/2020				<0.005	<0.005	<0.005
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/31/2021					<0.005	
4/1/2021						<0.005
4/6/2021				<0.005		
4/7/2021	<0.005	<0.005	<0.005			
8/19/2021	<0.005		<0.005	<0.005	<0.005	<0.005
8/20/2021		<0.005				
2/10/2022	<0.005	<0.005				0.00092 (J)
2/11/2022			<0.005		<0.005	
2/14/2022				<0.005		
8/18/2022	<0.005	<0.005	<0.005			
8/19/2022				<0.005	<0.005	
8/31/2022						0.001 (J)
2/22/2023	<0.005					
2/23/2023		<0.005	<0.005	<0.005	<0.005	0.00093 (J)
Mean	0.004803	0.004796	0.004606	0.00463	0.004222	0.003495
Std. Dev.	0.0009467	0.0009779	0.001306	0.001225	0.002473	0.001937
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00046	0.00031	0.00064	0.00084	0.0014	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-23	SGWC-6
5/11/2016						<0.005
5/12/2016	<0.005			0.00396 (J)	<0.005	
5/13/2016		0.023	<0.005			
6/27/2016						<0.005
6/29/2016	<0.005		<0.005	0.0053 (J)	<0.005	
6/30/2016		0.0263				
8/17/2016						<0.005
8/18/2016	<0.005					
8/19/2016					<0.005	
8/22/2016		0.0066	<0.005	0.0012 (J)		
10/17/2016						<0.005
10/18/2016			<0.005	<0.005	<0.005	
10/19/2016	<0.005	0.0057				
12/6/2016						<0.005
12/7/2016	<0.005	0.006			<0.005	
12/8/2016			<0.005	<0.005		
2/14/2017						<0.005
2/15/2017	<0.005				<0.005	
2/16/2017		0.0055	<0.005	<0.005		
4/12/2017						0.00034 (J)
4/13/2017	<0.005	0.0049	<0.005	<0.005	<0.005	
6/27/2017	0.00024 (J)					0.00057 (J)
6/28/2017		0.0047	0.00096 (J)	0.00064 (J)	0.00033 (J)	
3/27/2018	<0.005				<0.005	<0.005
3/28/2018		0.0085	<0.005	<0.005		
6/6/2018						0.00032 (J)
6/7/2018	0.00064 (J)			0.00066 (J)	<0.005	
6/8/2018		0.014	0.00063 (J)			
10/8/2018	0.00028 (J)				0.00026 (J)	<0.005
10/9/2018			0.0005 (J)			
10/18/2018		0.017		0.00049 (J)		
2/19/2019					0.00021 (J)	
2/20/2019	<0.005	0.027	<0.005	0.0011 (J)		<0.005
4/2/2019	<0.005	0.0075	<0.005	<0.005	<0.005	<0.005
9/16/2019						<0.005
9/17/2019	<0.005	0.0036	<0.005	<0.005		
9/18/2019					<0.005	
2/18/2020				<0.005	<0.005	<0.005
2/19/2020	<0.005		<0.005			
2/20/2020		0.0024 (J)				
3/23/2020			<0.005	<0.005		
3/24/2020	<0.005				<0.005	
3/25/2020						<0.005
3/26/2020		0.0019 (J)				
9/14/2020						<0.005
9/15/2020	<0.005	0.003 (J)	<0.005	<0.005	<0.005	
2/9/2021						<0.005
2/10/2021	<0.005	0.0016 (J)	<0.005	<0.005	<0.005	
3/30/2021		<0.005	<0.005	<0.005		
3/31/2021					<0.005	
4/1/2021	<0.005					<0.005
8/18/2021	<0.005	0.002 (J)			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-23	SGWC-6
8/19/2021			<0.005	<0.005		
2/9/2022						<0.005
2/10/2022		0.0021 (J)			<0.005	
2/11/2022	<0.005		<0.005	<0.005		
8/19/2022						<0.005
8/22/2022			0.00099 (J)	<0.005	<0.005	
8/23/2022		0.00085 (J)				
8/31/2022	<0.005					
2/22/2023	<0.005	<0.005	<0.005	<0.005		<0.005
2/23/2023					0.00075 (J)	
Mean	0.004398	0.007789	0.004264	0.004059	0.004198	0.004401
Std. Dev.	0.00159	0.00801	0.001642	0.001766	0.00179	0.001581
Upper Lim.	0.005	0.009377	0.005	0.005	0.005	0.005
Lower Lim.	0.00064	0.003281	0.00099	0.00396	0.00075	0.00057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

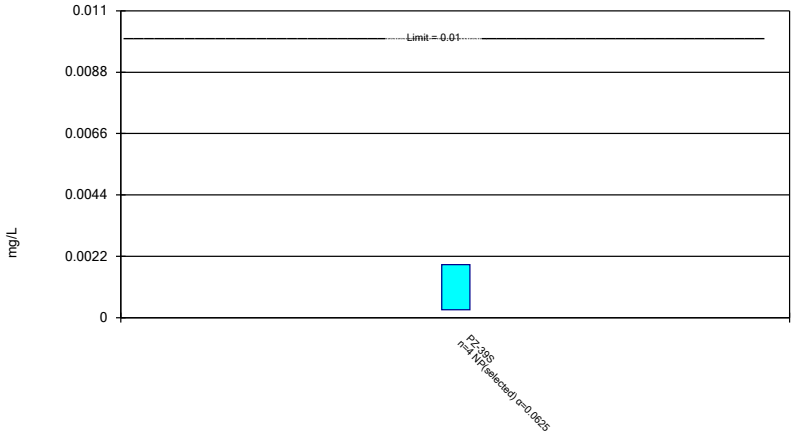
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	PZ-41S	PZ-39S	PZ-44I	PZ-17I	PZ-40I
5/11/2016	<0.005					
6/27/2016	<0.005					
8/17/2016	<0.005					
10/18/2016	<0.005					
12/6/2016	<0.005					
2/14/2017	<0.005					
4/12/2017	<0.005					
6/27/2017	<0.005					
3/27/2018	<0.005					
6/6/2018	<0.005					
10/9/2018	0.00034 (J)					
10/16/2018				0.00046 (J)		
10/17/2018			<0.0013			
10/18/2018		0.0045			0.00047 (J)	0.00059 (J)
2/20/2019	<0.005					
4/1/2019	<0.005					
9/17/2019	<0.005					
2/18/2020	<0.005					
3/26/2020	<0.005					
9/14/2020	<0.005					
2/9/2021	<0.005					
4/1/2021	<0.005					
8/18/2021	<0.005					
2/9/2022	<0.005	0.0061	0.0022 (J)	<0.005	<0.005	
2/10/2022						<0.005
8/18/2022	<0.005					
8/23/2022			0.0014 (J)			<0.005
8/24/2022		0.0062		<0.005	<0.005	
2/22/2023	<0.005					
2/23/2023		0.0071			<0.005	
2/24/2023			0.0019 (J)			<0.005
2/28/2023				<0.005		
Mean	0.004797	0.005975	0.0017	0.003865	0.003867	0.003897
Std. Dev.	0.0009717	0.001081	0.0004243	0.00227	0.002265	0.002205
Upper Lim.	0.005	0.00843	0.002534	0.005	0.005	0.005
Lower Lim.	0.00034	0.00352	0.0008658	0.00046	0.00047	0.00059

ND substitution: RL or RL/2 if <15% NDs.

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



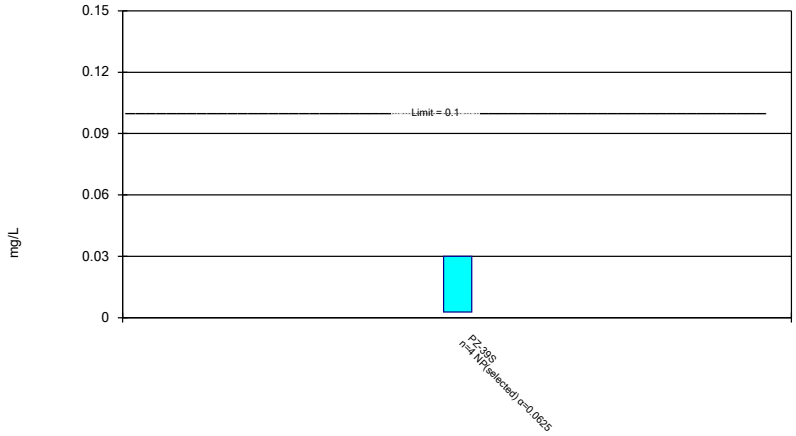
Normality testing disabled.

Constituent: Arsenic Analysis Run 5/8/2023 1:55 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



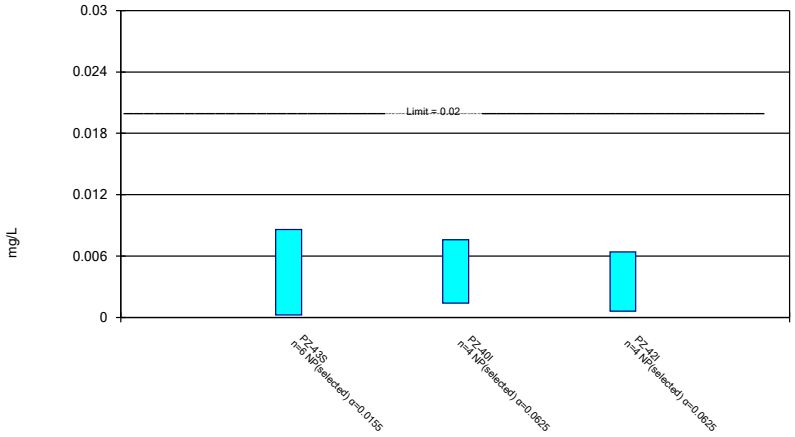
Normality testing disabled.

Constituent: Chromium Analysis Run 5/8/2023 1:55 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



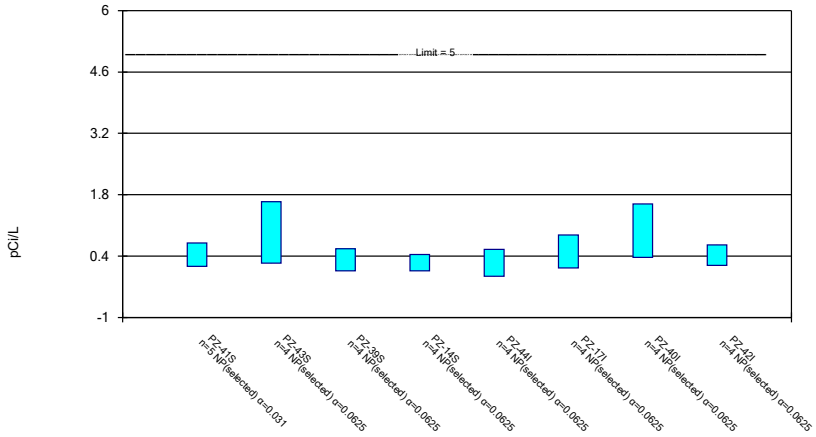
Normality testing disabled.

Constituent: Cobalt Analysis Run 5/8/2023 1:55 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



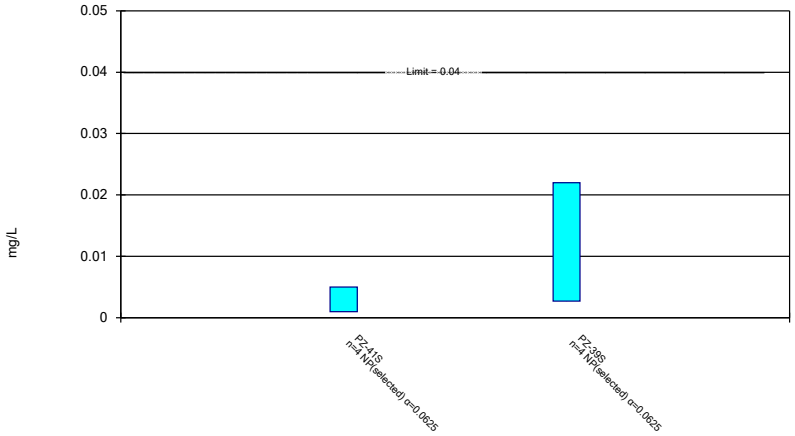
Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 1:55 PM View: Appendix IV - Non-Para

Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Lithium Analysis Run 5/8/2023 1:55 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-42I
10/18/2018	0.00026 (J)
2/9/2022	<0.005
8/22/2022	<0.005
2/23/2023	<0.005
Mean	0.003815
Std. Dev.	0.00237
Upper Lim.	0.005
Lower Lim.	0.00026

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15
5/11/2016	<0.001	<0.001	<0.001			
5/12/2016				<0.001	<0.001	<0.001
6/28/2016	0.0001 (J)	<0.001	<0.001	<0.001	<0.001	9E-05 (J)
8/17/2016	<0.001	<0.001				
8/18/2016			<0.001	<0.001	<0.001	<0.001
10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	
10/18/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001	<0.001		
12/7/2016					<0.001	<0.001
2/15/2017	<0.001	<0.001	<0.001	<0.001	<0.001	8.5E-05 (J)
4/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	9.5E-05 (J)
6/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
3/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001	<0.001			
6/7/2018				<0.001	<0.001	<0.001
10/8/2018			<0.001	<0.001	<0.001	
10/9/2018	<0.001					
10/16/2018		<0.001				0.0001 (J)
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	9.8E-05 (J)
4/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	9.5E-05 (J)
9/16/2019		<0.001	<0.001			
9/17/2019	<0.001			<0.001	<0.001	0.00016 (J)
2/18/2020		0.00016 (J)				
2/19/2020	0.00075 (J)		0.00034 (J)	0.00022 (J)	0.00018 (J)	0.00031 (J)
3/25/2020	<0.001	<0.001				
3/26/2020			<0.001			
3/27/2020				<0.001	0.0011	0.00045 (J)
9/14/2020	<0.001	<0.001	0.00023 (J)	<0.001		
9/15/2020					0.00035 (J)	0.00027 (J)
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/31/2021	<0.001					<0.001
4/6/2021					0.00017 (J)	
4/7/2021		<0.001	<0.001	<0.001		
8/19/2021	0.00024 (J)	0.00015 (J)		<0.001	<0.001	<0.001
8/20/2021			<0.001			
2/10/2022		<0.001	<0.001			
2/11/2022	<0.001			<0.001		<0.001
2/14/2022					<0.001	
8/18/2022		<0.001	<0.001	<0.001		
8/19/2022	<0.001				<0.001	<0.001
2/22/2023	<0.001	<0.001				
2/23/2023			<0.001	<0.001	<0.001	<0.001
Mean	0.000917	0.0009265	0.0009378	0.0009661	0.0009043	0.0006023
Std. Dev.	0.0002423	0.0002435	0.0002067	0.0001626	0.0002683	0.0004326
Upper Lim.	0.001	0.001	0.001	0.001	0.0011	0.001
Lower Lim.	0.00075	0.00016	0.00034	0.00022	0.00035	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-20	SGWC-22	SGWC-23	SGWC-6
5/11/2016						<0.001
5/12/2016	<0.001		<0.001	<0.001	<0.001	
5/13/2016		<0.001				
6/27/2016						<0.001
6/29/2016	<0.001		0.0002 (J)	<0.001	<0.001	
6/30/2016		0.0002 (J)				
8/17/2016						<0.001
8/18/2016	<0.001					
8/19/2016				<0.001	<0.001	
8/22/2016		0.00015 (J)	0.00018 (J)			
10/17/2016						<0.001
10/18/2016			0.00016 (J)	<0.001	<0.001	
10/19/2016	<0.001	0.00012 (J)				
12/6/2016						<0.001
12/7/2016	<0.001	9.5E-05 (J)		<0.001	<0.001	
12/8/2016			0.0001 (J)			
2/14/2017						<0.001
2/15/2017	<0.001				<0.001	
2/16/2017		0.00013 (J)	0.00014 (J)	<0.001		
4/12/2017						<0.001
4/13/2017	<0.001	0.00012 (J)	0.00021 (J)	<0.001	<0.001	
6/27/2017	<0.001					<0.001
6/28/2017		0.00013 (J)	0.00018 (J)	<0.001	<0.001	
3/27/2018	<0.001				<0.001	<0.001
3/28/2018		0.00011 (J)	9E-05 (J)	<0.001		
6/6/2018						<0.001
6/7/2018	<0.001		0.00014 (J)	<0.001	<0.001	
6/8/2018		0.00019 (J)				
10/8/2018	<0.001			<0.001	<0.001	<0.001
10/18/2018		0.00019 (J)	0.00018 (J)			
2/19/2019				<0.001	<0.001	
2/20/2019	<0.001	0.00021 (J)	0.00018 (J)			<0.001
4/2/2019	<0.001	0.00016 (J)	0.00017 (J)	<0.001	<0.001	<0.001
9/16/2019						<0.001
9/17/2019	<0.001	0.00025 (J)	0.00021 (J)			
9/18/2019				<0.001	<0.001	
2/18/2020			0.00033 (J)	<0.001	<0.001	0.00028 (J)
2/19/2020	<0.001					
2/20/2020		0.00066 (J)				
3/23/2020			0.00016 (J)			
3/24/2020	<0.001			<0.001	<0.001	
3/25/2020						0.00049 (J)
3/26/2020		0.00029 (J)				
9/14/2020						<0.001
9/15/2020	<0.001	0.00027 (J)	0.00028 (J)	0.00038 (J)	0.00016 (J)	
2/9/2021						<0.001
2/10/2021	0.00024 (J)	0.00068 (J)	0.00025 (J)	<0.001	<0.001	
3/30/2021		0.00024 (J)	0.00018 (J)			
3/31/2021				<0.001	<0.001	
4/1/2021	<0.001					0.00023 (J)
8/18/2021	<0.001	0.00022 (J)		<0.001	<0.001	0.00017 (J)
8/19/2021			0.00018 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-20	SGWC-22	SGWC-23	SGWC-6
2/9/2022						<0.001
2/10/2022		<0.001		<0.001	<0.001	
2/11/2022	<0.001		<0.001			
8/19/2022						<0.001
8/22/2022			<0.001	<0.001	<0.001	
8/23/2022		<0.001				
8/31/2022	<0.001					
2/22/2023	<0.001	<0.001	<0.001			<0.001
2/23/2023				<0.001	<0.001	
Mean	0.000967	0.0003659	0.000327	0.000973	0.0009635	0.000877
Std. Dev.	0.0001585	0.0003325	0.0003199	0.0001293	0.0001752	0.000279
Upper Lim.	0.001	0.00066	0.00028	0.001	0.001	0.001
Lower Lim.	0.00024	0.00013	0.00016	0.00038	0.00016	0.00049

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.001	<0.001	<0.001
6/27/2016	<0.001	<0.001	
6/29/2016			<0.001
8/17/2016	<0.001	<0.001	
8/22/2016			<0.001
10/17/2016		<0.001	
10/18/2016	<0.001		<0.001
12/6/2016	<0.001	<0.001	
12/7/2016			<0.001
2/14/2017	<0.001	<0.001	
2/16/2017			<0.001
4/12/2017	<0.001	<0.001	
4/13/2017			<0.001
6/27/2017	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	
3/28/2018			<0.001
6/6/2018	<0.001	<0.001	<0.001
10/9/2018	<0.001	<0.001	<0.001
2/20/2019	<0.001	<0.001	<0.001
4/1/2019	<0.001	<0.001	<0.001
9/16/2019			<0.001
9/17/2019	<0.001	0.00023 (J)	
2/18/2020	0.00022 (J)	0.0002 (J)	
2/19/2020			0.00027 (J)
3/25/2020		0.00079 (J)	<0.001
3/26/2020	<0.001		
9/14/2020	<0.001	<0.001	<0.001
2/9/2021	<0.001	<0.001	<0.001
3/31/2021			<0.001
4/1/2021	0.00042 (J)	0.00021 (J)	
8/18/2021	<0.001	<0.001	
8/19/2021			0.0004 (J)
2/9/2022	<0.001		
2/10/2022		<0.001	<0.001
8/18/2022	<0.001	<0.001	<0.001
2/22/2023	<0.001	<0.001	<0.001
Mean	0.0009409	0.0008883	0.0009422
Std. Dev.	0.0001982	0.0002709	0.0001926
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.00042	0.00079	0.0004

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S
10/17/2018	0.0019
2/9/2022	<0.001
8/23/2022	0.00028 (J)
2/24/2023	<0.001
Mean	0.001045
Std. Dev.	0.0006634
Upper Lim.	0.0019
Lower Lim.	0.00028

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-39S
10/17/2018	0.0027
2/9/2022	0.028
8/23/2022	0.014
2/24/2023	0.03
Mean	0.01868
Std. Dev.	0.01281
Upper Lim.	0.03
Lower Lim.	0.0027

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV - Non-Parametric
Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-43S	PZ-40I	PZ-42I
10/18/2018	0.0086	0.0076	0.0064
4/7/2021	0.00097 (J)		
8/18/2021	0.00025 (J)		
2/9/2022	<0.0025		0.00061 (J)
2/10/2022		0.0025	
8/22/2022			0.0012 (J)
8/23/2022		0.0029	
8/24/2022	<0.0025		
2/23/2023			<0.0025
2/24/2023	<0.0025	0.0014 (J)	
Mean	0.002887	0.0036	0.002677
Std. Dev.	0.002957	0.002741	0.002604
Upper Lim.	0.0086	0.0076	0.0064
Lower Lim.	0.00025	0.0014	0.00061

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-41S	PZ-43S	PZ-39S	PZ-14S	PZ-44I	PZ-17I	PZ-40I	PZ-42I
10/16/2018					0.551 (U)			
10/17/2018			0.0623 (U)					
10/18/2018	0.698	1.64				0.882	1.59	0.188 (U)
2/18/2020				0.163 (U)				
2/19/2020	0.216 (U)							
2/8/2022				0.0627 (U)				
2/9/2022	0.229 (U)	0.412 (U)	0.332 (U)		0.237 (U)	0.31 (U)		0.274 (U)
2/10/2022							0.366 (U)	
8/22/2022								0.401 (U)
8/23/2022			0.565	0.432 (U)			0.986	
8/24/2022	0.456	0.241 (U)			0.0981 (U)	0.125 (U)		
2/23/2023	0.168 (U)			0.413 (U)		0.255 (U)		0.651
2/24/2023		0.602	0.131 (U)				0.714	
2/28/2023					-0.0607 (U)			
Mean	0.3534	0.7238	0.2726	0.2677	0.2064	0.393	0.914	0.3785
Std. Dev.	0.2225	0.6284	0.2261	0.1836	0.26	0.3351	0.5172	0.2016
Upper Lim.	0.698	1.64	0.565	0.432	0.551	0.882	1.59	0.651
Lower Lim.	0.168	0.241	0.0623	0.0627	-0.0607	0.125	0.366	0.188

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 1:57 PM View: Appendix IV - Non-Parametric

Plant Scherer Client: Southern Company Data: Scherer AP

	PZ-41S	PZ-39S
10/17/2018		0.0027 (J)
10/18/2018	0.0029 (J)	
2/9/2022	<0.005	0.012
8/23/2022		0.022
8/24/2022	0.00099 (J)	
2/23/2023	<0.005	
2/24/2023		0.0071
Mean	0.003472	0.01095
Std. Dev.	0.001928	0.008288
Upper Lim.	0.005	0.022
Lower Lim.	0.00099	0.0027

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/3/2023, 10:51 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**SGWA-1 (bg)**	**-0.002606**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**SGWA-25 (bg)**	**-0.001984**	**-187**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**SGWC-11**	**-0.002933**	**-190**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**SGWC-20**	**-0.02272**	**-162**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

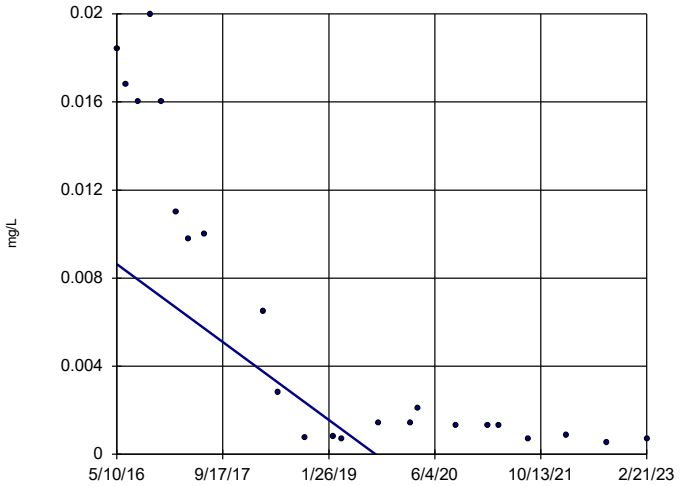
Plant Scherer Client: Southern Company Data: Scherer AP Printed 5/3/2023, 10:51 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**SGWA-1 (bg)**	**-0.002606**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	SGWA-2 (bg)	0	5	98	No	23	91.3	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWA-24 (bg)	0	-15	-98	No	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	**SGWA-25 (bg)**	**-0.001984**	**-187**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	SGWA-3 (bg)	0	18	98	No	23	95.65	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWA-4 (bg)	0	9	98	No	23	91.3	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWA-5 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWC-10	0	-1	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**SGWC-11**	**-0.002933**	**-190**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	SGWC-15	-0.002451	-52	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	SGWC-18	-0.006116	-68	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**SGWC-20**	**-0.02272**	**-162**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWA-1 (bg)



n = 23

Slope = -0.002606 units per year.

Mann-Kendall statistic = -187
critical = -98

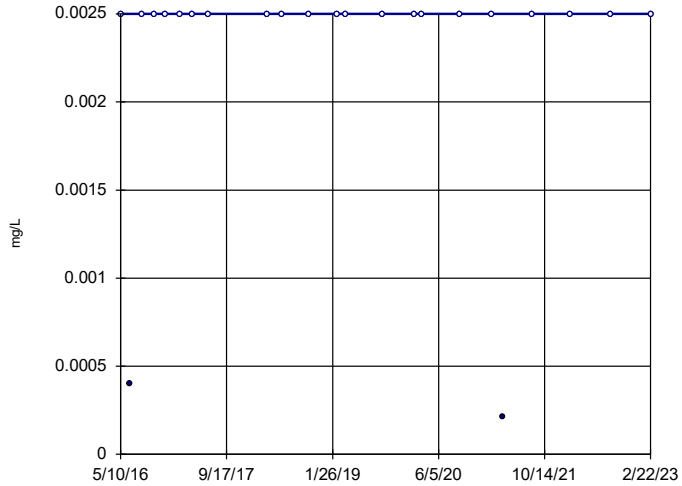
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-2 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 98

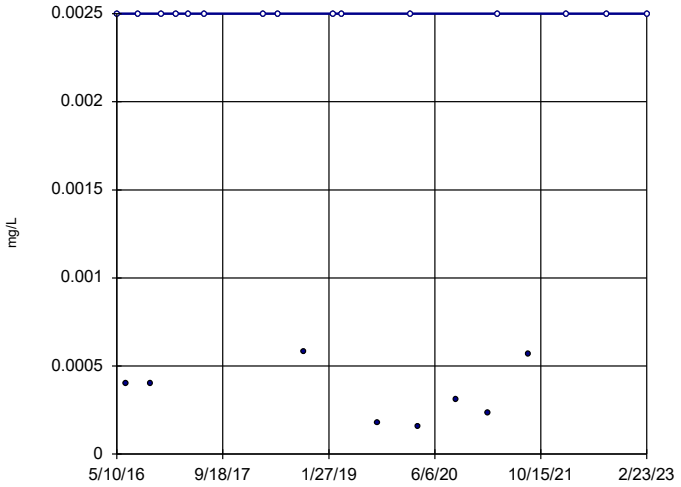
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-24 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -98

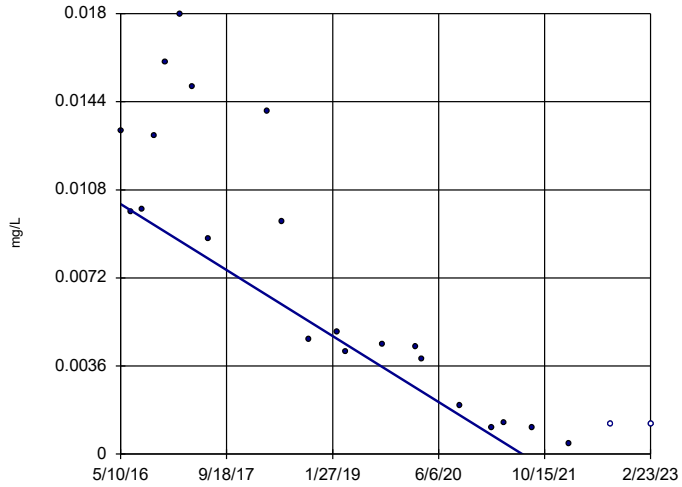
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-25 (bg)



n = 23

Slope = -0.001984 units per year.

Mann-Kendall statistic = -187
critical = -98

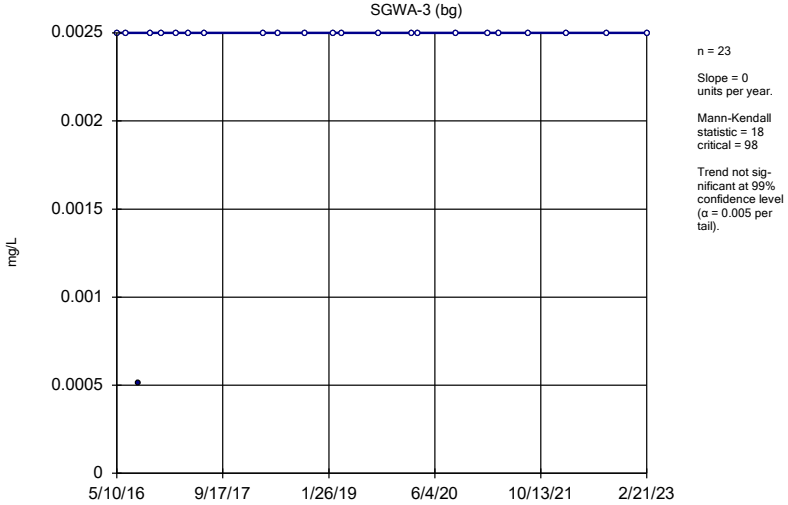
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-3 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 18
critical = 98

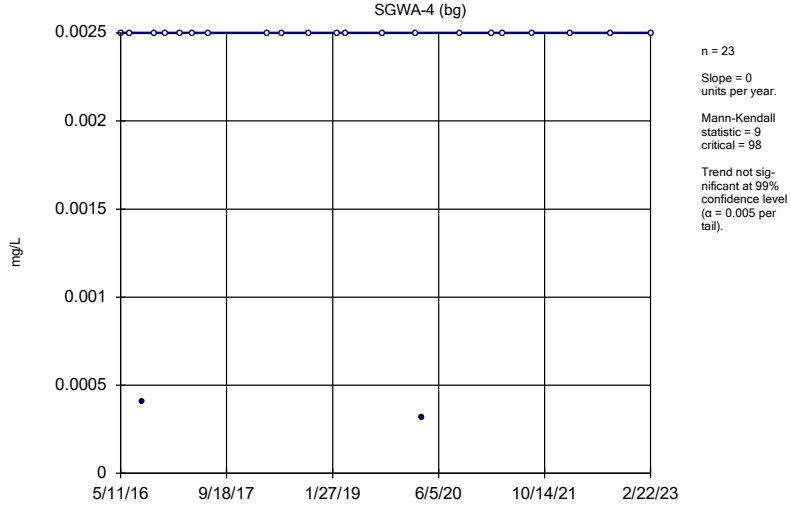
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-4 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 98

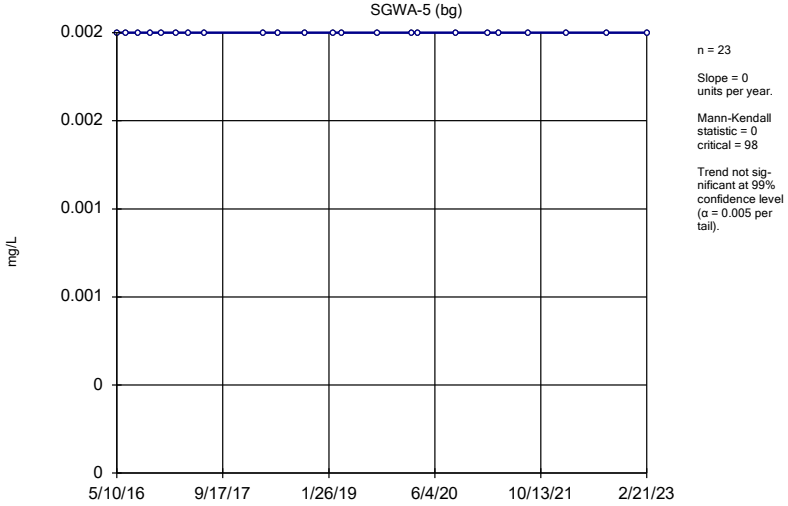
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

SGWA-5 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 98

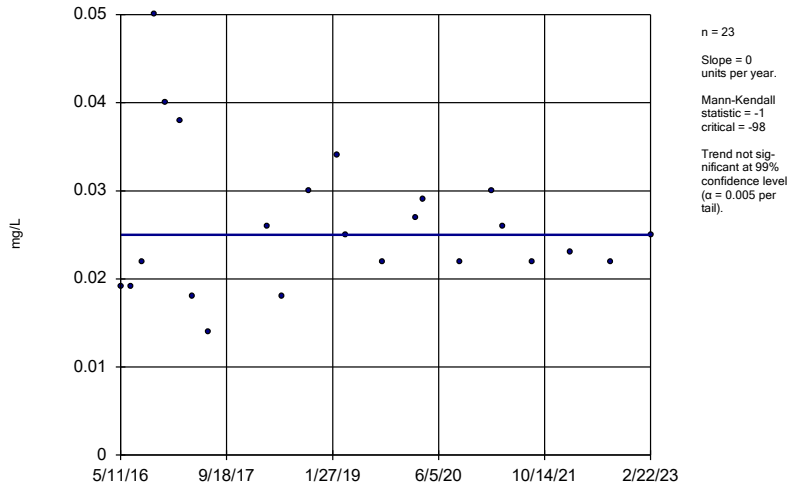
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-10



n = 23

Slope = 0 units per year.

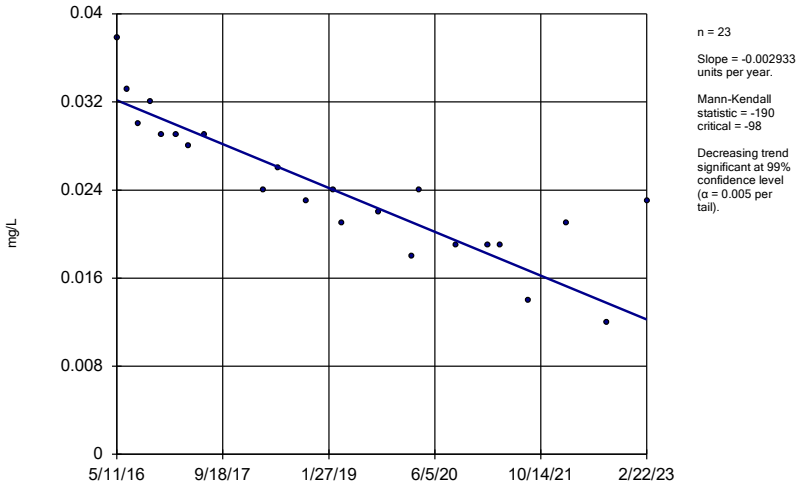
Mann-Kendall statistic = -1
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator

SGWC-11



n = 23

Slope = -0.002933 units per year.

Mann-Kendall statistic = -190
critical = -98

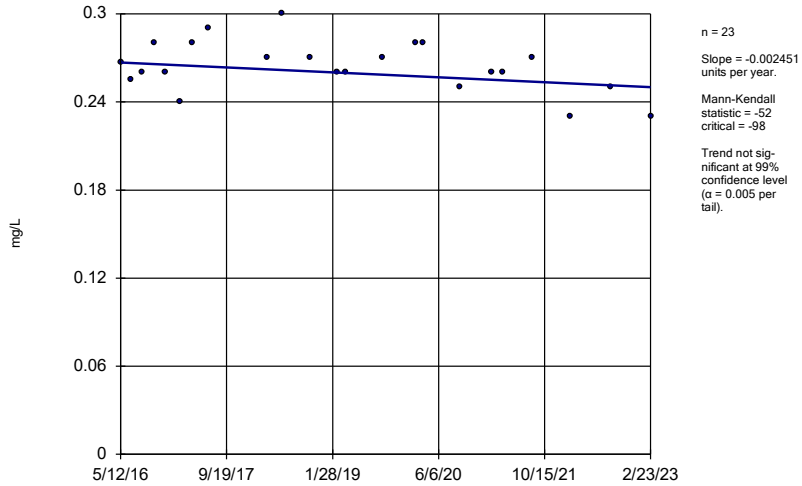
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-15



n = 23

Slope = -0.002451 units per year.

Mann-Kendall statistic = -52
critical = -98

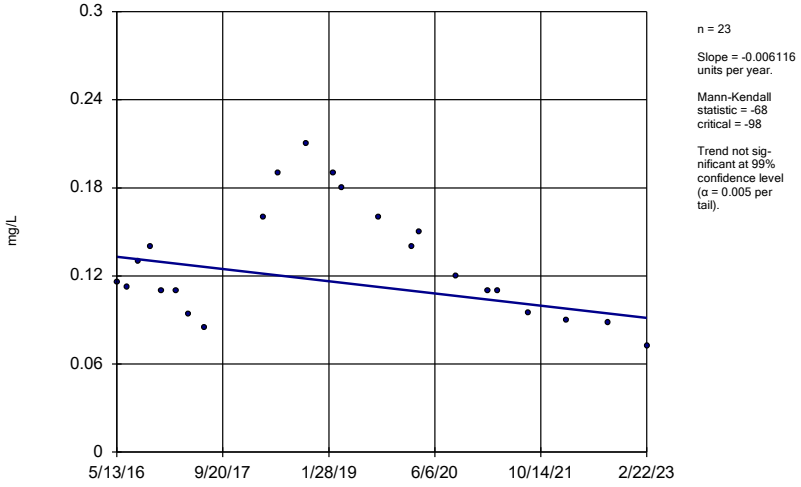
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-18



n = 23

Slope = -0.006116 units per year.

Mann-Kendall statistic = -68
critical = -98

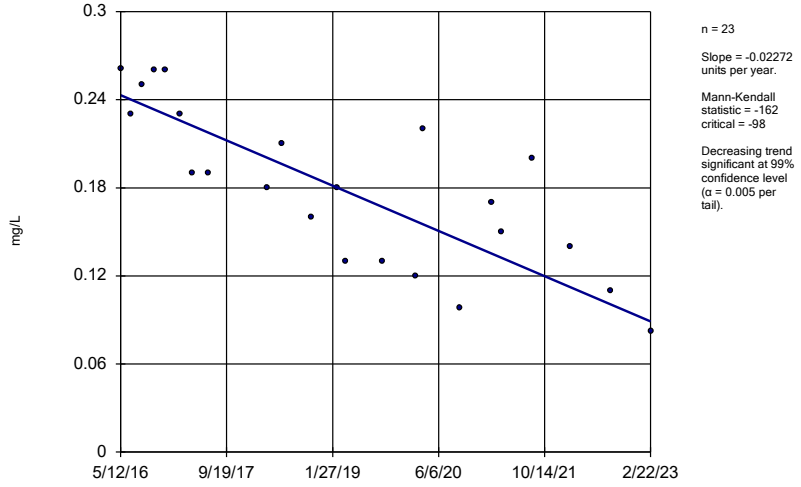
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

SGWC-20



n = 23

Slope = -0.02272 units per year.

Mann-Kendall statistic = -162
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/3/2023 10:50 AM View: Appendix IV - Trend Tests
Plant Scherer Client: Southern Company Data: Scherer AP

APPENDIX E

Semi-Annual Remedy Selection and Design Progress Report

REPORT

2023 Semi-Annual Remedy Selection and Design Progress Report

Georgia Power Company, Plant Scherer Ash Pond 1

Submitted to:

Georgia Power

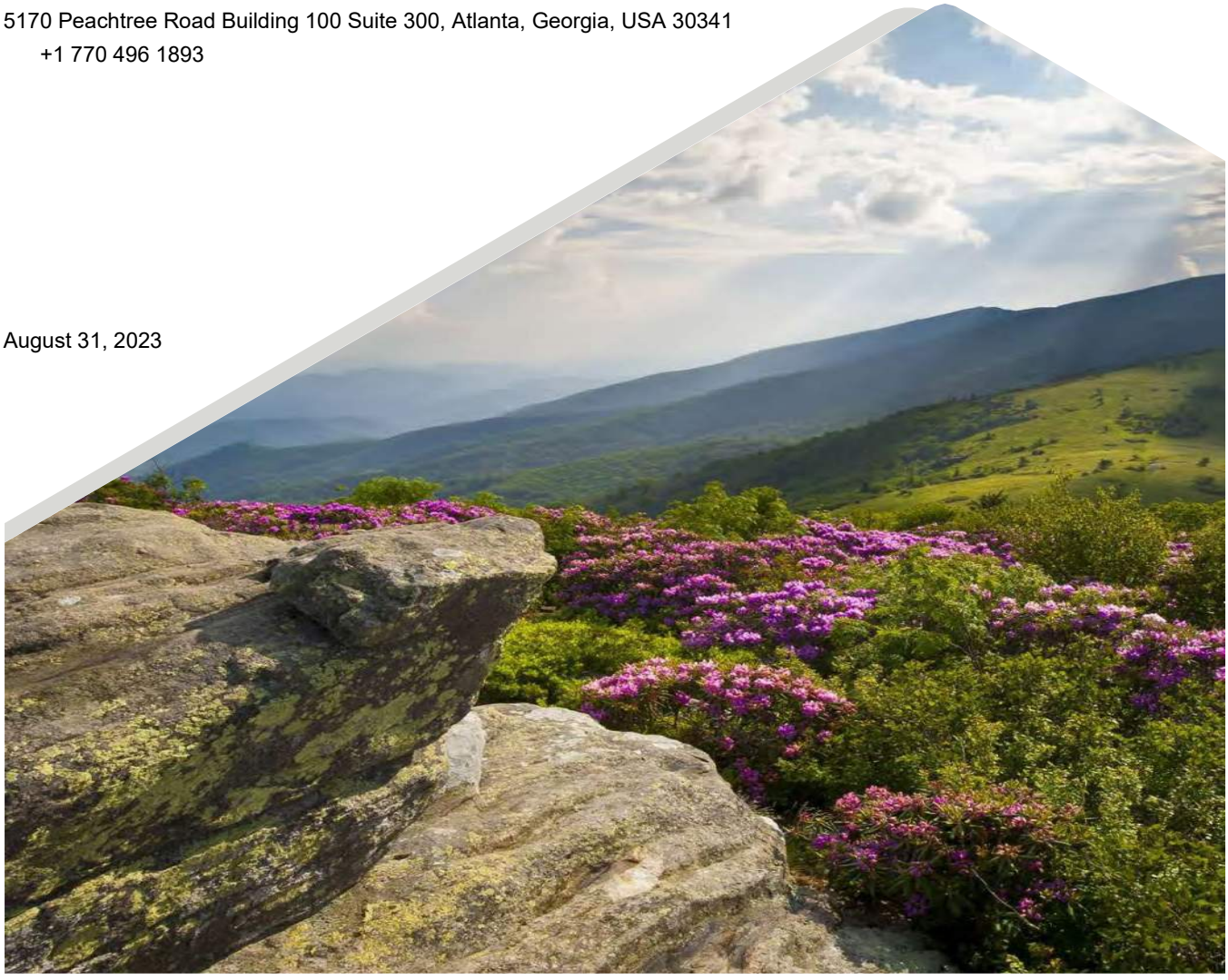
241 Ralph McGill Boulevard
Atlanta, Georgia 30308

Submitted by:

WSP USA Inc.

5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341

+1 770 496 1893



August 31, 2023

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Certification

This *2023 Semi-Annual Remedy Selection and Design Progress Report,* Georgia Power Company – Plant Scherer-Ash Pond 1 (AP-1), has been prepared in accordance with the United States Environmental Protection Agency coal combustion residual rule, specifically 40 Code of Federal (CFR) 227.97(a) and the Georgia Environmental Protection Division Rules for Solid Waste Management 341-3-4-.10(6)(a). 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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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) coal combustion residuals (CCR) rule [40 Code of Federal Regulations (CFR) 257 Subpart D]; published in 80 FR 21302-21501, April 17, 2015 (CCR Rule; USEPA, 2015), WSP USA Inc. (WSP) has prepared this *2023 Semi-Annual Remedy Selection and Design Progress Report Plant Scherer Ash Pond 1* (Semi-Annual Progress Report) for Georgia Power Company (Georgia Power) Plant Scherer Ash Pond 1 (AP-1 or Site). Specifically, this Semi-Annual Progress Report has been prepared pursuant to 40 CFR § 257.97(a) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10(6)(a). This Semi-Annual Progress Report documents activities conducted in support of the previously submitted *Assessment of Corrective Measures Report – Plant Scherer Ash Pond 1* (ACM Report; Golder, 2022).

Plant Scherer is a coal-fired power generation facility located in northeast Monroe County approximately 5 miles south of Juliette, GA. A site location map is included as Figure 1.

Pursuant to § 257.96, Georgia Power initiated an ACM for AP-1 on November 18, 2021, to address the occurrence of cobalt in groundwater at statistically significant levels (SSLs). Subsequently, Georgia Power completed an ACM report on April 15, 2022 and posted it to the CCR compliance website in May 2022.

Amongst other topics, this progress report summarizes a field investigation for additional groundwater and soil sample collection conducted in May 2023 in the areas around existing monitoring wells SGWC-15, SGWC-18, and SGWC-20, which have SSLs of cobalt. A total of 13 temporary piezometers were installed and sampled across the three investigation areas (SGWC-15, SGWC-18, and SGWC-20) to collect soil and groundwater samples.

In addition to the assessment monitoring program at the Site, Georgia Power conducted a human health and ecological risk assessment of cobalt SSLs in groundwater at AP-1, which includes Site data through March 2020. The risk evaluation provides one of many lines of evidence that will be reviewed and factored into the remedy selection process, which will be completed in accordance with § 257.97. Based on this risk evaluation, “constituents evaluated from AP-1 are not expected to pose a risk to human health or the environment. Accordingly, no further risk evaluation for groundwater or surface water is warranted” (Wood, 2021). Cobalt data collected since March 2020 are consistent with data used in the risk evaluation; therefore, the conclusions of the *2021 Risk Evaluation Report* are supported by current conditions.

1.1 Evaluation of Corrective Measures

Pursuant to § 257.97, Georgia Power is evaluating the potential corrective measures in the ACM report to identify a remedy or combination of remedies as soon as feasible. The following corrective measures have been subject to evaluation for potential use at AP-1:

- Geochemical Approaches (In-Situ Injection)
- Hydraulic Containment (Pump and Treat)
- Monitored Natural Attenuation (MNA)
- In-Situ Solidification/Stabilization (ISS)
- Permeable Reactive Barrier (PRB)

- Phytoremediation
- Subsurface Vertical Barrier Wall (SVBW).

An evaluation of remedial technologies is presented in Table 1. To date, in-situ solidification stabilization and phytoremediation have been removed from consideration. As required by the CCR Rule, this semi-annual progress report describes the progress made in selecting and designing a remedy.

The following remedial alternatives have been retained for further evaluation.

- **Geochemical Approaches (In-Situ Injection):** An injection well network, or other means of introducing reagents or air into the subsurface, is used to provide suitable reagents for either anaerobic or aerobic attenuation of constituents present as SSLs including cobalt. Under aerobic conditions, soluble iron or manganese and oxygen (either via air sparging or through a chemical oxidant) would be injected to promote the formation of iron or manganese (oxy-) hydroxides for subsequent sorption of cobalt onto these mineral phases. If sufficient iron is present in groundwater, the use of air sparging alone may be considered to precipitate iron (oxy-) hydroxides for sorption. In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds.
- **Hydraulic Containment (Pump and Treat)**: Hydraulic containment involves extracting groundwater from wells or collection trenches to depress the water table and locally control the flow of groundwater. The proposed technology for a pump-and-treat system would include the installation of vertical and/or angled groundwater extraction wells downgradient of the area(s) targeted for treatment. Groundwater extraction wells can be designed and screened in the unconsolidated saprolite, transition zone, and fractured bedrock materials at the site for effective hydraulic capture. Groundwater extraction wells installed in bedrock can alternatively be completed as open-hole borings to maximize groundwater removal from multiple water-bearing fracture zones at varying depths.
- **Monitored Natural Attenuation (MNA):** MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption and/or mineral precipitation), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater.
- **Permeable Reactive Barrier (PRB):** PRB technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater flows through the media. Either ZVI-Carbon matrix or solid carbon (bio-barrier) are likely viable for the removal of cobalt from groundwater. The carbon could be composed of peat moss, mulch, or another carbon source. Exact placement of the PRB would be contingent on finalization of the nature and extent characterization. PRBs can also be constructed as “funnel and gate” systems, where a barrier wall directs groundwater to a smaller “treatment gate” filled with reactive media.
- **Subsurface Vertical Barrier Wall (SVBW):** This approach involves placing a barrier to groundwater flow in the subsurface to prevent future migration of dissolved constituents in groundwater to downgradient areas. In general, barrier walls are designed to provide containment; and when fully encompassing, SVBWs may require a pump and treatment system to maintain inward hydraulic gradients and treat extracted water.

A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile.

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Golder, 2022) to support the groundwater remedy selection process and address potential changes in site conditions as appropriate during the AP-1 closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms, into account.

Characterization activities to evaluate attenuation mechanisms at the Site may include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the EPA guidelines for MNA (US EPA 2007, 2015). The 2007 MNA technical guidance specific to inorganic contaminants contained four "tiers." The 2015 MNA guidance, which expands on and is designed to be a companion to the 2007 MNA guidance, retains these four "tiers," but describes them as "phases."

- **Phase I:** Demonstration that the groundwater plume is *not expanding*.
- **Phase II:** Determination that the *mechanism and rate* of the attenuation process are sufficient.
- **Phase III:** Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.
- **Phase IV:** Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

2.0 AP-1 CLOSURE ACTIVITIES

The *Amended Written Closure Plan* (Georgia Power, 2020) was prepared in accordance with 40 CFR 257, Subpart D and meets the requirements of 40 CFR 257.102(b) and 391-3-4-.10. The surface impoundment (AP-1) at Plant Scherer is planned to be closed by consolidating the CCR within the 550-acre impoundment to a smaller footprint in accordance with 391-3-4-.10 and 40 CFR 257.102(b)(1)(iii). The proposed closure footprint will consist of two principal regions within the existing AP-1 footprint: a closure-by-removal area located to the north and the consolidated closure-in-place footprint in the south. The two proposed closure areas will be separated by a new northern embankment berm that will buttress the consolidated CCR materials within the consolidated closure-in-place footprint and for the limit of the final cover. The reduced footprint of the consolidated CCR will then be closed in place. Site work including infrastructure updates have begun in anticipation of closure as the CCR permit application is under review with GA EPD.

3.0 SUMMARY OF WORK COMPLETED

The following sections summarize field investigation activities and supplemental data collected since identifying the SSLs to support site characterization and delineation of Appendix IV SSLs, as well as evaluation of the corrective measures presented in the ACM report. This data will be used to evaluate the feasibility, mechanisms, rates, and stability of identified remedial alternatives to address SSLs of cobalt in groundwater at AP-1. An evaluation of this data as they relate to remedy selection alternatives is ongoing and will be presented in future report(s).

3.1 Nature and Extent Delineation

CCR compliance groundwater monitoring-related activities have been performed for AP-1 since September 2016 pursuant to the CCR rule. Georgia Power initiated an assessment monitoring program in November 2018 after identifying statistically significant increases (SSIs) of Appendix III parameters in groundwater. Pursuant to § 257.95, samples were collected from the detection and assessment monitoring wells and analyzed for Appendix IV constituents.

Assessment monitoring groundwater data show SSLs of cobalt at monitoring wells SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20. Details are provided in the *2023 Semi-Annual Groundwater Monitoring and Corrective Action Report* (WSP, 2023).

The locations of the Site monitoring wells and piezometers are shown on Figure 2. Table 2 provides a summary of construction details for each of the Site monitoring wells and piezometers, respectively. A potentiometric surface map illustrating the February 2023 potentiometric surface elevations is provided as Figure 3.

3.1.1 Horizontal and Vertical Delineation

To characterize the nature and extent of cobalt SSLs, multiple piezometers have been installed and sampled at the Site; refer to the table below for constituent delineation status.

Detection Monitoring Well with Cobalt SSL	Assessment Well Providing Vertical Delineation	Assessment Well Providing Horizontal Delineation
SGWC-10	PZ-69I[1]	PZ-13S
SGWC-11	PZ-44I	PZ-14S
SGWC-15	PZ-17I	PZ-39S
SGWC-18	PZ-40I	PZ-41S
SGWC-20	PZ-42I	PZ-43S

Note:
[1] Delineation is complete pending statistical data evaluations at location PZ-69I. A minimum of four data points is needed to perform the required statistical analyses. Each of three reported sample results to date at PZ-69I are below the GWPS.

Based on review of the analytical results, statistical analyses, and the isoconcentration contours, horizontal and vertical delineations are complete. Horizontal delineation for cobalt is defined by assessment monitoring wells PZ-13S, PZ-14S, PZ-39S, PZ-41S and PZ-43S. There are no SSLs for any of the horizontal assessment wells and therefore horizontal delineation is complete. Vertical delineation for cobalt is defined using assessment monitoring wells PZ-69I, PZ-44I, PZ-17I, PZ-40I, and PZ-42I. There are no SSLs for PZ-44I, PZ-17I, PZ-40I, and PZ-42I. Reported results for PZ-69I from each of three monitoring events to date are below the GWPS and therefore, vertical delineation is complete. However, in accordance with the statistical analysis plan, a minimum of four data points is needed to perform the required statistical operations to confirm delineation. Details regarding the data for specific well pairs used for delineation are described in detail in the *2023 Semi-Annual Groundwater Monitoring and Corrective Action Report* (WSP, 2023).

3.1.2 Transect Soil Borings Investigation

In October 2022 and again in April-May 2023, a series of soil borings were advanced along three primary transect lines in the vicinity of selected wells exhibiting SSLs of cobalt (SGWC-15, SGWC-18, SGWC-20). Transect lines

and soil boring locations are presented on Figure 4. A total of 13 samples were collected from these borings at depths targeting the soil/groundwater interface and approximate mid screen interval of the adjacent monitoring well at each boring. Actual sample depths selected were dependent on the aquifer materials characteristics and at the discretion of the field geologist. Boring logs generated from this investigation are included in Appendix C.

The soil samples were submitted for laboratory analysis for physical parameters, pH, percent solids, and grain size as well as the following analyses for chemical and mineralogical characterization:

- Sequential Extraction Procedure (SEP)
- Cation exchange capacity (CEC)
- Total sulfur content
- Clay specific and Rietveld X-ray diffraction (XRD)

Results of soil samples collected in October 2022 are presented in Appendix D. Results from the analyses described being evaluated and will be considered in connection with a forthcoming geochemical conceptual site model report.

3.1.3 Temporary Piezometers

Thirteen (13) temporary piezometers were installed and groundwater samples collected at selected soil boring locations to support further evaluation of cobalt concentrations in SGWC-15, SGWC-18, and SGWC-20. A summary of temporary piezometer construction data is presented on Table 3. The target piezometer locations were based on field parameters prior to installation of piezometers. Temporary piezometers were installed on all four directions from each detection monitoring wells and at intermediate depth below the screened interval of detection well and the deeper vertical delineation well at that location. The temporary piezometers were developed until turbidity was less than 10 NTU and the field parameters achieved stable readings. The temporary piezometers were sampled in May 2023 and the results are presented in Table 4. Temporary piezometers were surveyed for accurate recording of groundwater elevations. Data collected during this investigation will be further evaluated and will be considered in connection with a forthcoming geochemical conceptual site model report.

Field data and sampling notes for each temporary piezometers are recorded on the field information forms, which contains a description of the sampling equipment, sampling method, purge rate, field observations, and depth to water measurements at each monitoring location. Appendix A includes field data sheets and the Low-Flow Test Reports. The laboratory analyses were performed by Eurofins Test America Laboratory (TAL) location in Savannah, Georgia. Groundwater data and chain of custody records for the supplemental investigation are presented in Appendix B.

Figures 5, 5A, 5B, and 5C present isoconcentration contours for cobalt at all five cobalt SSL locations. Cobalt concentration data from the new temporary piezometers are included at locations C-15, C-18 and C-20.

3.2 Supplemental Data Collection

Groundwater samples collected from the detection and assessment monitoring well networks in February 2023 were analyzed for major ions (magnesium, potassium, sodium, total and bicarbonate alkalinity), and minor ions (iron and manganese). Results are included in the *2023 Semi-Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2023).

Groundwater and aquifer solids collected to date along with data collection described below will be used to evaluate the feasibility, mechanisms, rates, and stability of identified remedial alternatives to address SSLs of cobalt in groundwater at AP-1.

4.0 UPDATED SITE CONCEPTUAL MODEL

Additional data collection since the issuance of the ACM allow for the development of a more refined conceptual site model (CSM) and will be used to supplement the current *Hydrogeologic Assessment Report* (Golder, 2021). The following summarizes the current understanding of the CSM within the context of selecting an appropriate groundwater corrective measure for AP-1.

- The February 2023 potentiometric surface shows groundwater flow is generally from the northwest towards AP-1 and radially to the northeast and east, southeast and south, and southwest from AP-1, which sits on a topographic high, as shown on Figure 3. The latest water level data collected in 2023 confirmed groundwater flow in the uppermost aquifer to be consistent with the CSM.
- Cobalt concentrations above the GWPS are limited to the immediate proximity of detection wells SGWC-18 and SGWC-20, and within 300 feet of well SGWC-15. At locations SGWC-10 and SGWC-11, elevated cobalt is limited to a small area as shown by delineation wells PZ-13S and PZ-14S.

5.0 CORRECTIVE MEASURES ALTERNATIVES

Table 1 presents a summary of each of the remedial alternatives presented as part of the ACM. Table 5 provides a summary of additional data planned to be collected to further evaluate the feasibility of these. The retention evaluation (Retained for Further Evaluation or Not Retained) for each potential remedial alternative is included on Table 1. Each of the alternatives described in Section 1.1 and listed below are retained for further evaluation:

- Geochemical Approaches (In-Situ Injection)
- Hydraulic Containment (Pump and Treat)
- Monitored Natural Attenuation (MNA)
- Permeable Reactive Barrier (PRB)
- Subsurface Vertical Barrier Wall (SVBW)

Phytoremediation and ISS have been removed from consideration as remedial alternatives for the site as described below:

- Phytoremediation has not been retained due to relatively thick overburden in hydraulic connection with partially weathered rock. Other options are considered more suitable. In addition, the presence of site utilities beyond the limits of AP-1 in the areas of cobalt detections limits the amount of space available to install phytoremediation components. The stability of the dam along the eastern side of AP-1 is also a consideration relative to the potential construction of phytoremediation at the base of the dam in the immediate vicinity of the certain wells with identified SSLs. As such, phytoremediation has been screened out based on deficiencies of effectiveness and the depth and geology of the affected area.
- ISS has not been retained for consideration at AP-1. ISS has been more widely implemented as a source control measure. Because the cobalt detections at AP-1 are relatively low and cobalt SSLs are localized to a

few locations, and the occurrence of cobalt at these locations are likely due to groundwater pH variations along the flow paths, ISS is not practical for groundwater remediation beyond the AP-1 boundary. As such, ISS has been screened out based on deficiencies of effectiveness.

6.0 PLANNED ACTIVITIES

Georgia Power has initiated activities as outlined in the ACM Report (Golder, 2022) to support the groundwater remedy selection process and address potential changes in Site conditions as appropriate. The adaptive site management approach toward remedy selection may be adjusted as new Site information and technologies become available. To this end, Georgia Power will continue its data collection efforts as necessary in support of efforts to refine the CSM and to further evaluate the feasibility of each corrective measure retained for further evaluation.

Additional field investigation activities, supplementary data collection and data analyses are planned as described in Table 5 to evaluate potential remedial alternatives. Key elements are summarized below.

- Collect additional groundwater quality data to complete statistical analyses of delineation data. In addition to Appendix III/IV constituents, wells may also be analyzed for major cations/anions and other parameters for characterization of groundwater and evaluation of potential remedies.
- Evaluation of transect groundwater data collected in May 2023 to refine understanding of nature and extent and support refinement of geochemical CSM.
- Evaluate site soil data for attenuation mechanism and rates, aquifer capacity for attenuation, and mineralogical characterization.

Georgia Power will continue to prepare semi-annual progress reports to document AP-1 groundwater conditions, results associated with additional data collection, and the progress in selecting and designing a groundwater remedy in accordance with § 257.97(a). Georgia Power will include these future semi-annual progress reports with routine groundwater monitoring and corrective action reports to meet the requirements of § 257.105(h)(12), § 257.106(h)(9), and § 257.107(h)(9), respectively.

7.0 REFERENCES

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Tables

TABLE 1
Evaluation of Remedial Technologies
Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	**Performance**	**Reliability**
Geochemical Approaches (in situ injection)	Use of an injection well network, or other means of introducing reagents or air into the subsurface, to provide suitable reagents for either anaerobic or aerobic attenuation of cobalt (Co). Under anaerobic conditions, Co would be attenuated within sparingly soluble sulfide minerals. Under aerobic conditions, soluble iron or manganese and oxygen (either via air sparging or through a chemical oxidant) would be injected to promote the formation of iron or manganese (oxy-) hydroxides for subsequent sorption of Co onto these mineral phases. If sufficient iron is present in groundwater, the use of air sparging alone may be considered to precipitate iron (oxy-) hydroxides for sorption. In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds, including Co.	The effective immobilization of Co has been shown under aerobic and anaerobic conditions; however, the anaerobic approach (involving the injection of an electron donor together with iron or manganese and sulfur) requires careful study and testing. While aerobic approaches are somewhat less complex, additional aquifer characterization is needed to further evaluate these options.	Reliability dependent on permeability of the subsurface and the amount and distribution of secondary iron or manganese (oxy-) hydroxides (for aerobic approach), or electron donors and soluble iron or manganese and sulfur that can be consistently distributed (for anaerobic approach). Reliable technology if injected materials can be distributed throughout the impacted aquifer. Bench- and/or pilot-scale treatability testing programs are needed to understand the biogeochemical processes that would effectively reduce migration of Co in groundwater.
Hydraulic Containment (pump- and-treat)	Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the groundwater, or reuse (e.g., land application, CCR conditioning, etc.). It is applicable to a variable mix of inorganic constituents, including dissolved Co.	Pump and treat (P&T) is effective at providing hydraulic control, but it is unclear whether full groundwater remediation can be achieved without further understanding attenuation mechanisms at the Site. At AP-1, implementation of the corrective measure is contingent on completing additional assessment activities (i.e., high-resolution site characterization, additional pump tests, flow modeling, and capture zone analysis). This is needed to refine the constituent distribution in the subsurface to target specific zones for pumping for improved mass recovery efficiency/effectiveness and to further evaluate the potential remedy performance.	Generally reliable for hydraulic containment, but uncertainty exists whether groundwater remediation goals can be achieved within a reasonable time frame without further understanding attenuation mechanisms.

TABLE 1
Evaluation of Remedial Technologies
Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	**Performance**	**Reliability**
Monitored Natural Attenuation (MNA)	MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. Attenuation mechanisms for inorganic constituents at CCR sites, including Co at AP-1, are either physical (e.g., dilution, dispersion, flushing, and related processes) or chemical (sorption or oxidation reduction reactions). Chemical attenuation processes include precipitation, and sorption reactions such as adsorption on the surfaces of soil minerals, absorption into the matrix of soil minerals, or partitioning into organic matter. Further, oxidation-reduction (redox) reactions, via abiotic or biotic processes, can transform the valence states of some inorganic constituents to less soluble and thus less mobile forms. For Co, the main attenuation processes include sorption to iron and manganese oxides and formation of sparingly soluble sulfide minerals.	Physical and chemical MNA mechanisms for Co, including dilution, dispersion, sorption, and oxidation reduction reactions can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. Closure will improve the mass balance such that the buffer capacity of the aquifer is unlikely to be exhausted, and the attenuation processes already at work for Co at AP-1 will further enhance ongoing MNA.	Reliable as long as sufficient attenuation capacity is present. MNA is reliable and can either be used as a stand-alone corrective measure for groundwater impacted by dissolved Co, or in combination with a second technology.
In-Situ Solidification / Stabilization (ISS)	ISS, also referred to as single auger mixing or deep soil mixing, uses a crane-mounted large-diameter auger system to drill into affected soils and uniformly mix the soils with cement to create a monolith (solidification) or with appropriate chemical additives to chemically bind constituents within the solid matrix (stabilization). This remedy can also be achieved by a cutter head on an excavator if treatment depths do not exceed the reach of the excavator. Additional equipment utilized for treatment primarily consists of a grout mixing plant, a grout pump and a mixing rig designed to encapsulate constituents in a monolithic solid of high structural integrity, thereby minimizing constituent migration.	Groundwater impacts would be addressed through the processes of natural attenuation. This alternative would isolate/secure the area of influence outside the CCR unit in a bound matrix, and over time, allow the concentrations of constituents of concern (COCs) in downgradient groundwater to decline to below applicable standards.	In-situ stabilization can be a reliable corrective measure for Co in groundwater. Reliability is dependent on the permeability of the subsurface and mechanics of injection.
Permeable Reactive Barrier (PRB)	Permeable reactive barrier (PRB) technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater passes through. Either ZVI-Carbon matrix or solid carbon (bio-barrier) are likely viable for the concurrent removal of Co. The carbon could be composed of peat moss, mulch or another carbon source. Exact placement of the PRB would be contingent on finalization of the nature and extent characterization. PRB walls are typically keyed into the bedrock. While the shallow groundwater in the residuum and fractured bedrock is connected to the groundwater in more competent bedrock, the higher permeability/conductivity of the PRB is not expected to impede groundwater flow. PRBs can also be	PRBs have been shown to effectively address Co in groundwater. The approach is expected to achieve GWPS for Co as impacted groundwater passes through the reactive barrier. Furthermore, additional testing is required to select the appropriate sorptive media mix.	Reliable groundwater corrective measure technology, but loss of reactivity over time may require re-installation depending on the duration of the remedy. Additional data collection, including conducting a bench and/or pilot study, is needed to select the appropriate reactive media mix and dosages for a PRB wall.

TABLE 1
Evaluation of Remedial Technologies
Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	**Performance**	**Reliability**
	constructed as “funnel and gate” systems, where a barrier wall directs groundwater to a smaller “treatment gate” filled with reactive media.		
Phyto Remediation (TreeWell®)	Phytoremediation uses trees and other plants to degrade or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-1, this corrective measure would likely use an engineered (proprietary) TreeWell® phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater. In addition, immobilization of Co within the root zone as well as incidental uptake of dissolved Co with groundwater is expected to occur concurrent with hydraulic control.	Once established (typically at the end of the third growing season), a TreeWell® system is effective for providing hydraulic containment of groundwater, and potential reduction of Co concentration through immobilization and/or uptake and sequestration in the tree biomass; however, the main purpose is to provide hydraulic control.	Engineered phytoremediation is a proven technology where hydrogeologic factors are taken into account (e.g., hydraulic conductivity, flow velocity, depth to impacted groundwater zone, etc.). This is considered an active remedial approach through the use of trees as the "pumps" driving the system. Careful design will be needed to select the proper species, which will include consideration of groundwater chemistry, plant uptake of constituents, and groundwater flow modeling to evaluate the required number and placement of TreeWell® units.
Subsurface Vertical Barrier Walls (SVBW)	This approach involves placing a barrier to groundwater flow in the subsurface to prevent future migration of dissolved constituents in groundwater from beneath the walled area to downgradient areas. In general, barrier walls are designed to provide containment; and when fully encompassing, SVBWs require a pump and treatment system to maintain inward hydraulic gradients and treat extracted water. Barrier walls can also be used in downgradient applications to limit potential influence to/from surface water features. A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile.	Barrier walls are a proven technology for groundwater cutoff at impoundments. Slurry walls are limited by the depth of installation, which is approximately 90 ft below ground surface. However, site-specific geologic and technology-specific considerations may limit this depth to shallower installations. Within the context of AP-1, a barrier wall might be used in conjunction with a “funnel and gate” system for a PRB rather than a stand-alone technology. As such, groundwater with Co above GWPS could either be directed to “treatment gates” for passive treatment (in a PRB) or migration of impacted groundwater could be minimized via barrier wall installation. Additional subsurface investigations, aquifer testing, and compatibility testing with site-specific groundwater will be needed.	Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is incidental and not the primary objective.

TABLE 1
Evaluation of Remedial Technologies
Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Ease of Implementation	**Potential Impacts**	**Time Requirement to Begin/Complete**
Geochemical Approaches (in situ injection)	Moderate. Installation of injection well network or other injection infrastructure would be required. Alternative installation approaches may be considered, such as along the downgradient edge of impacted groundwater, which would function similar to a PRB application. Potential for clogging of aquifer matrix and/or injection well infrastructure. Chemical distribution during injections (i.e., radius of influence) needs to be evaluated.	Minimal impacts are expected if remedy works as designed, based on a thorough pre-design investigation, geochemical modeling, and bench/pilot study results. Redox-altering processes have the potential to mobilize naturally occurring constituents as an unintended consequence if not properly studied and implemented.	Design of a geochemical in situ injection 'system' will require numerical groundwater flow and geochemical modeling, bench scale testing and may require a pilot test to obtain final design parameters which may take up to 24 months. After design, installation of the injection network can be accomplished relatively quickly (1 to 2 months). Once installed, the time required to achieve GWPS within the treatment area may be relatively quick but depends on the attenuation process kinetics of each targeted constituent. The time for complete distribution of the injected materials throughout the treatment area is also variable.
Hydraulic Containment (pump- and-treat)	Moderate. Proven approach, and supplemental installation of extraction wells/trenches is straightforward. The extracted groundwater may potentially require an above-ground treatment system. A variety of sorption and precipitation approaches exist for ex-situ treatment of Co. Operation and maintenance (O&M) requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	The main potential impacts are related to the presence and operation of an on-site above-ground water treatment facility and related infrastructure to convey and treat extracted groundwater. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone.	Design of a pump and treatment system will require additional aquifer testing, numerical groundwater modeling, and if needed, design of a treatment system for the extracted groundwater (which itself will require significant treatability testing). Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months) and if required, the treatment system would require up to an additional year to construct and start-up. The initiation of the approach would be contingent on the start-up of the wastewater treatment infrastructure. Hydraulic containment can be achieved relatively quickly after startup of the extraction system, but uncertainty exists with respect to the time to achieve GWPS without additional data collection to better understand attenuation mechanisms for Co.
Monitored Natural Attenuation (MNA)	Easy. Easy to implement with respect to infrastructure, monitoring and reporting. Proven approach, but additional data are needed to show that the existing attenuation capacity is sufficient to meet site objectives within a reasonable timeframe. A monitoring well network already exists to implement future groundwater monitoring efforts.	No impacts are anticipated; MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations.	Design of an MNA remedy demonstrates that attenuation mechanisms and capacity are naturally present in the groundwater system and will require an MNA evaluation and groundwater and geochemical modeling and can take up to 1 year. The infrastructure to initiate MNA is already in place but may require some additional wells. MNA is expected to be successful within a reasonable time frame following pond closure. Engineering measures will be implemented during closure of the CCR unit to minimize potential impacts to the subsurface during closure activities and routine groundwater monitoring will be used to verify that groundwater impacts remain stable or decrease over time.

TABLE 1
Evaluation of Remedial Technologies
Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Ease of Implementation	**Potential Impacts**	**Time Requirement to Begin/Complete**
In-Situ Solidification / Stabilization (ISS)	Difficult. ISS has been proven effective and stabilizing waste masses to prevent leaching, but very intensive program to solidify an entire CCR unit. Significant heavy equipment and traffic on-Site and working on the AP-1 unit. ISS has not been commonly used to stabilize entire ash units as part of a closure strategy.	Following completion, potential impacts of the remedy will be negligible. During construction, general construction safety risks would be elevated above less-intensive remedies.	Design of an In-situ stabilization remedy for AP-1 will take several years to complete and will require bench scale testing to determine the appropriate amendment mix for a variety of overburden geologic materials. Pilot testing will also be needed to verify the ability of equipment to solidify material at depth. Following design, implementation to solidify the AP-1 CCR mass could take many years and may be delayed by availability of specialized contractors and equipment.
Permeable Reactive Barrier (PRB)	Moderate to Difficult. Trenching would be required to install a mix of reactive materials in the subsurface. Continuous trenching may be the most feasible construction method. Installation methods and materials are readily available. Once installed, treatment will be passive and O&M requirements are minimal if replacement of the PRB is not necessary.	Minimal impacts are expected following the construction of the remedy. However, ZVI has the potential to create anaerobic conditions downgradient of the PRB wall that may mobilize redox-sensitive naturally occurring constituents. These conditions need to be carefully monitored. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures.	Design of a PRB may take up to 2 years, including bench/column testing for selection of reactive media and dosages (percent by weight), selection of ballast material for target hydraulic conductivity of the mixed porous media, and numerical groundwater modeling required to evaluate post-installation flow. Installation of a PRB can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. Once installed, the time to achieve GWPS downgradient of the PRB is anticipated to be relatively quick.
Phytoremediation	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Species are selected and trees are installed such that the root zone can intercept impacted groundwater flow paths. Area must be clear of above and below-ground structures (i.e., power lines). The system, once established (approximately three growing seasons), is a self-maintaining, sustainable remedial system that has no external energy requirements and little maintenance (i.e., efforts normally associated with landscaping).	Minimal impacts are expected. In fact, there are several positive impacts expected, including enhanced aesthetics, wildlife habitat, and limited energy consumption.	The design phase may take up to 6 months, and some groundwater modeling may be required. Depending on the number of required units, the installation effort is expected to last several weeks. Hydraulic capture/control is expected approximately three years after planting and system performance is expected to further improve over time.
Subsurface Vertical Barrier Walls (SVBW)	Moderate to difficult. Trenching will be required to fill in the various slurry mixes; alternatively, sheet pile installations can be accomplished without excavation of trenches. The application of barrier walls is limited by the depth of installation, which similar to PRBs, should be keyed into a low permeability layer such as a thick clay layer, PWR, or bedrock. Installation methods and materials are readily available.	Minimal impacts are expected following the construction of the remedy. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures. Changes to groundwater flow patterns due to installation of the barrier wall are expected, which can affect other aspects of groundwater corrective action.	The design phase may take up to 24 months and is likely to include additional aquifer testing and numerical groundwater modeling. Installation of a barrier wall can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. Once installed, preventing migration of constituents dissolved in groundwater is anticipated to be relatively quick. Since this approach does not treat the downgradient area of impacted groundwater but prevents migration, it will likely have to be maintained long-term and coupled with other approaches.

TABLE 1
Evaluation of Remedial Technologies
Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		Relative Costs	Retention Evaluation
	Institutional Requirements	Other Env. Or Public Health Requirements		
Geochemical Approaches (in situ injection)	Deed restrictions may be necessary until in-situ treatment has achieved GWPS. A new UIC permit (for in-situ injections) would be required to implement this corrective measure. No other institutional requirements are expected at this time.	None expected at this point. Potential for mobilization of redox-sensitive constituents exists during implementation of an anerobic attenuation approach. Following installation, the remedy is passive.	Medium (depending on expanse of injection network required and injectate volume required per derived design parameters)	Retained for further analysis; can be applied for Co as a sparingly soluble mineral or could be applied to raise the groundwater pH to promote immobilization through sorption mechanisms.
Hydraulic Containment (pump- and-treat)	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a new underground injection control (UIC) permit may be needed if groundwater recirculation is chosen. In addition, deed restrictions may be required as long as groundwater conditions are above regulatory standards for unrestricted use.	Above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on remedy duration, complexity of above-ground treatment system, and volume of water processed)	Retained for further analysis; extracted water could be routed to wastewater treatment infrastructure built for dewatering and closure of ponds at the site.
Monitored Natural Attenuation (MNA)	MNA may require the implementation of institutional controls, such as deed restrictions, until GWPS can be achieved.	Little to no physical disruption to remediation areas and no adverse construction-related impacts are expected on the surrounding community.	Low to medium	Retained for further analysis; may be used as a stand-alone corrective measure or in conjunction with other potential groundwater corrective measures.
In-Situ Solidification / Stabilization (ISS)	Deed restrictions may be necessary until groundwater concentrations are below GWPS. No other institutional requirements that may limit application of this technology are expected at this time.	Changes to groundwater chemistry relative to the mobility of Appendix IV constituents following completion of ISS, where large volumes of amendments (typically Portland cement) are added to the subsurface, are unknown and would require pilot testing.	Very high, significant equipment, labor and reactant/stabilization demand.	Not Retained for further analysis. ISS has been more widely implemented as a source control measure. Because the cobalt detections at AP-1 are relatively low and cobalt SSLs are localized to a few locations, and the occurrence of cobalt at these locations are likely due to groundwater pH variations along the flow paths, ISS is not practical for groundwater remediation beyond the AP-1 boundary.
Permeable Reactive Barrier (PRB)	Deed restrictions may be necessary for groundwater where a PRB is selected. No other institutional requirements are expected at this time.	None expected at this point. Following installation, the remedy is passive. However, certain treatment media (such as ZVI) have the potential to mobilize naturally occurring constituents downgradient of the PRB.	Medium to high (for installation) - minimal O&M requirements if replacement is not necessary	Retained for further analysis; capable of treating Co when PRB can be placed appropriately given physical Site constraints.

TABLE 1
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Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		Relative Costs	Retention Evaluation
	Institutional Requirements	Other Env. Or Public Health Requirements		
Phytoremediation	Deed restrictions may be necessary for groundwater areas upgradient of the phytoremediation layout. No other institutional requirements are expected at this time.	None expected at this point. Following installation, the remedy is passive and does not require external energy.	Medium (for installation) - minimal O&M requirements	Not retained due to deficiencies. Other options more suitable for this site, due to relatively thick overburden including partially weathered rock, and site layout.
Subsurface Vertical Barrier Walls (SVBW)	Deed restrictions may be necessary for groundwater areas downgradient of the barrier wall until remedial goals are met. No other institutional requirements are expected at this time.	If groundwater extraction associated with barrier walls is necessary to maintain inward gradients, above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on length and depth of wall and need for treatment of extracted water)	Retained for further analysis; capable of limiting Co migration in groundwater.

TABLE 2
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (feet BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
AP-1 DETECTION MONITORING WELL NETWORK												
SGWA-1	Upgradient	Overburden	1119233.10	2399899.81	544.27	544.1	546.83	53.7	503.57	493.57	10	2/11/2015
SGWA-2	Upgradient	Bedrock	1119237.67	2399908.19	544.20	544.0	546.94	98.5	458.55	448.55	10	2/17/2015
SGWA-3	Upgradient	Overburden	1120224.15	2399296.64	543.03	542.9	545.83	53.0	502.88	492.88	10	11/18/2015
SGWA-4	Upgradient	Overburden	1121477.05	2401124.64	544.96	544.8	547.66	63.3	494.31	484.31	10	11/17/2015
SGWA-5	Upgradient	Overburden	1118088.42	2397426.26	505.93	505.7	508.48	32.8	485.53	475.53	10	11/18/2015
SGWC-6	Downgradient	Overburden	1122167.18	2401979.98	507.87	507.7	510.49	27.8	492.67	482.67	10	11/12/2015
SGWC-7	Downgradient	Bedrock	1122668.61	2402259.75	503.65	503.5	506.40	37.9	478.45	468.45	10	11/11/2015
SGWC-8	Downgradient	Overburden/Bedrock	1122865.98	2402979.50	511.68	511.5	514.28	42.8	481.48	471.48	10	11/11/2015
SGWC-9	Downgradient	Overburden	1122634.64	2403455.19	507.88	507.6	510.62	38.0	482.63	472.63	10	11/6/2015
SGWC-10	Downgradient	Overburden	1121895.85	2404046.92	506.80	506.6	509.41	32.8	486.60	476.60	10	11/5/2015
SGWC-11	Downgradient	Overburden	1121542.11	2404332.12	508.77	508.6	511.47	42.9	478.62	468.62	10	10/29/2015
SGWC-12	Downgradient	Overburden	1121576.75	2405009.92	497.80	497.7	500.53	50.4	460.70	450.70	10	10/30/2015
SGWC-13	Downgradient	Overburden	1121274.85	2405761.20	480.17	479.9	482.71	37.8	454.92	444.92	10	11/4/2015
SGWC-14	Downgradient	Overburden	1120966.13	2406329.89	473.52	473.3	476.72	38.7	448.52	438.52	10	2/24/2015
SGWC-15	Downgradient	Overburden	1120191.20	2407093.92	479.76	479.7	482.75	48.3	444.86	434.86	10	2/26/2015
SGWC-16	Downgradient	Overburden	1119221.42	2407155.89	457.18	457.0	460.31	43.5	428.23	418.23	10	3/3/2015
SGWC-17	Downgradient	Overburden	1118308.77	2407267.44	415.13	414.9	418.00	27.6	400.83	390.83	10	3/11/2015
SGWC-18	Downgradient	Overburden	1116947.75	2406931.32	510.41	510.3	513.29	47.5	476.21	466.21	10	3/17/2015
SGWC-19	Downgradient	Overburden	1116024.59	2406097.05	476.13	475.8	478.94	37.7	451.63	441.63	10	3/18/2015
SGWC-20	Downgradient	Overburden	1116020.73	2405307.67	501.69	501.5	504.60	28.1	486.49	476.49	10	11/19/2015
SGWC-21	Downgradient	Overburden	1115409.88	2404197.33	484.92	484.7	487.67	27.9	470.17	460.17	10	5/6/2015
SGWC-22	Downgradient	Overburden	1115540.08	2403001.81	515.51	515.4	518.02	52.7	478.91	468.91	10	1/22/2015
SGWC-23	Downgradient	Bedrock	1116693.80	2402131.07	520.17	520.0	523.10	52.8	480.72	470.72	10	2/3/2015
SGWA-24	Upgradient	Overburden	1118121.96	2400743.52	489.47	489.3	492.38	43.1	461.62	451.62	10	2/10/2015
SGWA-25	Upgradient	Overburen	1120555.28	2400857.08	523.45	523.2	526.49	48.3	488.60	478.60	10	2/18/2015

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Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (feet BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
AP-1 ASSESSMENT MONITORING WELL NETWORK												
PZ-13S	Downgradient	Overburden	1121957.03	2404227.47	517.68	517.5	520.51	48.3	482.58	472.58	10	4/1/2015
PZ-14S	Downgradient	Overburden	1121852.80	2404820.56	509.03	508.7	512.13	48.4	474.18	464.18	10	3/26/2015
PZ-17I	Downgradient	Bedrock	1120190.27	2407107.37	480.20	479.9	483.03	100.4	393.20	383.20	10	2/27/2015
PZ-39S	Downgradient	Overburden	1120178.43	2407470.49	471.99	471.8	474.58	82.8	405.79	395.79	10	8/21/2018
PZ-40I	Downgradient	Bedrock	1116960.39	2406934.72	510.19	510.1	512.55	86.5	437.09	427.09	10	8/15/2018
PZ-41S	Downgradient	Overburden	1116799.18	2407124.98	488.66	488.6	491.50	47.9	453.56	443.56	5	8/16/2018
PZ-42I	Downgradient	Bedrock	1116013.79	2405294.12	500.65	500.5	503.18	107.7	414.45	404.45	10	8/21/2018
PZ-43S	Downgradient	Overburden	1115598.12	2405507.16	501.34	501.2	504.03	57.8	460.69	450.69	10	8/17/2018
PZ-44I	Downgradient	Bedrock	1121515.40	2404330.23	507.91	507.9	510.36	116.5	403.86	393.86	10	9/5/2018
PZ-69I	Downgradient	Bedrock	1121906.36	2404051.35	506.44	506.0	508.85	108.9	410.00	400.00	10	1/13/2022
PIEZOMETERS												
PZ-2I	Downgradient	Bedrock	1115544.85	2402990.76	515.06	514.8	517.56	86.8	440.91	430.91	10	1/27/2015
PZ-3S	Downgradient	Overburden	1116085.04	2402533.80	514.57	514.4	517.29	52.9	474.77	464.77	10	1/29/2015
PZ-5I	Downgradient	Bedrock	1117484.15	2401816.71	520.73	520.6	523.26	49.8	484.03	474.03	10	2/4/2015
PZ-9I	Upgradient	Bedrock	1120562.72	2400862.76	523.61	523.3	526.57	83.5	453.51	443.51	10	2/19/2015
PZ-10S	Downgradient	Overburden	1122338.03	2401768.92	514.78	514.4	517.53	38.1	489.88	479.88	10	5/5/2015
PZ-11S	Downgradient	Overburden	1123169.22	2402767.44	526.19	526.0	529.31	49.2	490.54	480.54	10	4/6/2015
PZ-12S	Downgradient	Overburden	1122684.90	2403618.46	514.64	514.5	517.69	47.5	480.54	470.54	10	4/1/2015
PZ-14I	Downgradient	Bedrock	1121866.36	2404822.43	510.03	509.7	512.89	98.4	424.93	414.93	10	3/25/2015
PZ-15S	Downgradient	Overburden	1121486.96	2405558.59	497.59	497.4	500.60	43.3	467.74	457.74	10	4/28/2015
PZ-19I	Downgradient	Bedrock	1118588.47	2407251.56	414.74	414.5	417.76	75.1	353.04	343.04	10	3/4/2015
PZ-19S	Downgradient	Overburden	1118587.24	2407241.54	414.79	414.5	417.80	28.3	399.94	389.94	10	3/4/2015
PZ-20I	Downgradient	Bedrock	1118318.15	2407273.36	414.46	414.3	417.41	82.7	345.11	335.11	10	3/10/2015
PZ-21S	Downgradient	Overburden	1117639.19	2407006.52	470.85	470.6	473.74	28.1	457.60	447.60	10	3/12/2015
PZ-25S	Downgradient	Overburden	1121848.11	2404567.52	525.78	525.5	528.24	58.8	480.78	470.68	10	5/25/2016
PZ-25I	Downgradient	Overburden	1121837.80	2404573.04	526.02	525.8	528.39	128.6	410.97	400.97	10	5/24/2016

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PIEZOMETERS - continued												
PZ-26S	Downgradient	Overburden	1121696.65	2405733.23	489.17	489.1	491.65	48.6	454.27	444.27	10	6/1/2016
PZ-27D	Downgradient	Bedrock	1121558.94	2406023.17	472.659	472.4	475.43	129.0	367.61	347.61	20	6/17/2016
PZ-27S	Downgradient	Overburden	1121565.33	2406028.25	473.175	473.1	475.80	48.7	438.33	428.33	10	5/26/2016
PZ-28I	Downgradient	Bedrock	1121394.06	2406373.94	481.587	481.4	484.18	72.7	422.84	412.84	10	6/3/2016
PZ-29S	Downgradient	Overburden	1121269.19	2406618.29	488.704	488.5	491.31	48.8	453.70	443.70	10	5/26/2016
PZ-30I	Downgradient	Bedrock	1121073.53	2407078.99	475.712	475.6	478.31	89.8	400.46	390.46	10	6/2/2016
PZ-31I	Downgradient	Bedrock	1121204.03	2407445.73	464.163	464.0	466.89	79.9	399.06	389.06	10	6/2/2016
PZ-32D	Downgradient	Bedrock	1121089.64	2407719.37	462.561	462.4	465.42	129.6	366.56	336.56	30	6/1/2016
PZ-32S	Downgradient	Overburden	1121089.22	2407698.44	462.52	462.3	465.06	59.8	417.47	407.47	10	6/1/2016
PZ-33I	Downgradient	Overburden	1121245.25	2409064.05	466.547	466.4	469.38	79.4	400.65	390.65	10	6/8/2016
PZ-34S	Downgradient	Overburden	1121331.59	2409288.37	441.08	440.8	443.67	48.8	405.53	395.53	10	6/4/2016
PZ-35I	Downgradient	Overburden	1121598.57	2406058.33	474.72	474.6	474.40	55.8	429.27	419.27	10	6/22/2016
PZ-36I	Downgradient	Bedrock	1120410.99	2407256.25	478.96	478.9	481.52	99.7	393.56	383.56	10	6/5/2016
PZ-36S	Downgradient	Overburden	1120401.04	2407248.04	479.50	479.4	482.35	59.0	434.40	424.40	10	8/22/2018
PZ-37I	Downgradient	Overburden/Bedrock	1121178.48	2408419.19	479.68	479.5	482.18	75.2	418.48	408.48	10	6/2/2016
PZ-38I	Downgradient	Overburden	1121475.86	2406352.98	482.38	482.2	482.24	76.0	418.43	408.43	10	6/23/2016
PZ-45D	Downgradient	Bedrock	1125296.24	2400250.55	509.94	509.7	512.33	167.6	399.74	344.74	55	3/9/2020
PZ-46D	Downgradient	Overburden/Bedrock	1123512.22	2400923.25	447.37	447.1	450.28	56.7	423.57	393.57	30	3/17/2020
PZ-47D	Downgradient	Bedrock	1126623.42	2404366.80	406.91	406.8	410.01	29.2	396.66	381.66	15	3/11/2020
PZ-48S	Downgradient	Overburden	1125014.71	2405779.92	441.45	441.3	444.33	64.0	390.55	380.55	10	3/4/2020
PZ-49D	Downgradient	Bedrock	1123429.73	2410615.29	365.13	364.9	367.41	108.5	288.88	258.88	30	3/6/2020
PZ-49S	Downgradient	Overburden	1123434.46	2410605.99	365.29	365.2	367.89	27.7	350.19	340.19	10	3/7/2020
PZ-50D	Upgradient	Bedrock	1103125.91	2408306.87	470.70	470.7	473.78	103.1	380.66	370.66	10	3/18/2020
PZ-51D	Upgradient	Bedrock	1119239.99	2399955.07	543.47	543.2	546.04	128.9	427.17	417.17	10	3/8/2020
PZ-52	Downgradient	Overburden	1122822.91	2403622.69	519.68	519.4	521.84	79.4	452.43	442.43	10	3/17/2020
PZ-53	Downgradient	Overburden	1121932.34	2404813.43	513.81	513.6	516.64	48.0	478.61	468.61	10	3/19/2020

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Juliette, GA

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PIEZOMETERS - continued												
PZ-54	Downgradient	Overburden	1121509.71	2406555.15	490.27	490.2	492.96	47.8	455.17	445.17	10	3/19/2020
PZ-55	Downgradient	Overburden	1121931.60	2409132.43	444.25	444.2	447.21	39.1	418.15	408.15	10	3/20/2020
PZ-56	Downgradient	Bedrock	1123524.68	2409037.21	431.10	430.8	433.68	48.8	395.10	385.10	10	3/19/2020
PZ-57	Downgradient	Overburden/Bedrock	1123405.64	2407361.88	436.55	436.4	439.51	62.1	387.45	377.45	10	3/19/2020
PZ-58	Downgradient	Overburden	1123299.43	2405207.09	489.35	489.3	492.21	49.0	453.25	443.25	10	3/16/2020
PZ-59S	Downgradient	Overburden	1125213.65	2407658.45	383.13	382.8	385.93	27.1	368.83	358.83	10	3/20/2020
PZ-59D	Downgradient	Bedrock	1125229.89	2407668.93	383.16	382.9	385.86	72.0	328.86	313.86	15	3/27/2020
PZ-60D	Downgradient	Bedrock	1124410.72	2408242.87	386.53	386.4	389.34	102.9	317.03	286.73	30	3/29/2020
PZ-60S	Downgradient	Overburden	1124400.44	2408243.59	386.66	386.4	389.88	23.5	376.36	366.36	10	3/31/2020
PZ-61	Downgradient	Overburden/Bedrock	1122537.21	2408531.43	436.84	436.8	439.27	52.5	397.34	387.34	10	4/11/2020
PZ-62	Downgradient	Overburden	1122370.34	2406175.11	498.45	498.3	501.32	55.1	456.00	446.00	10	4/9/2020
PZ-63	Downgradient	Bedrock	1123955.38	2404060.61	499.12	498.9	501.54	42.7	468.87	458.87	10	4/12/2020
PZ-64	Downgradient	Bedrock	1123724.36	2406404.18	476.09	476.0	479.52	72.5	416.99	406.99	10	4/8/2020
PZ-65	Downgradient	Overburden	1121937.16	2407733.04	429.77	429.6	432.42	32.8	409.57	399.57	10	4/11/2020
PZ-66D	Downgradient	Bedrock	1124644.48	2409028.45	424.64	424.4	427.60	269.2	-	-	open borehole	4/2/2020
PZ-66	Downgradient	Bedrock	1124664.10	2409115.98	418.68	418.4	421.24	62.9	373.38	358.38	15	5/8/2020
PZ-67D	Downgradient	Bedrock	1125764.81	2408259.40	424.86	424.7	428.48	304.8	-	-	open borehole	4/1/2020
PZ-67	Downgradient	Overburden	1125782.26	2408248.89	423.37	423.2	425.94	42.7	393.47	383.47	10	4/25/2020
PZ-68	Downgradient	Overburden	1125116.59	2407181.92	392.34	392.1	395.55	23.4	382.14	372.14	10	4/15/2020
LPZ-01	Upgradient	Overburden/Bedrock	1117001.58	2398513.19	550.47	550.0	553.29	69.1	495.97	485.97	10	11/10/2015
LPZ-02	Upgradient	Overburden	1119972.34	2398004.93	511.42	511.1	514.52	23.4	501.07	491.07	10	11/20/2015
LPZ-03	Upgradient	Overburden	1117883.86	2398657.00	512.55	512.2	515.45	38.3	487.15	477.15	10	11/18/2015
LPZ-04	Upgradient	Overburden	1115962.59	2397083.47	458.31	458.1	461.24	43.1	440.11	430.11	10	11/19/2015
LPZ-05	Upgradient	Overburden	1115328.95	2399698.53	521.81	521.5	524.51	106.405	479.41	469.41	10	11/5/2015

TABLE 2
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (feet BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
GYPSUM CELL 1												
GWC-1	Downgradient	Overburden	1120077.85	2411555.32	371.77	371.6	374.95	39.35	346.91	336.91	10	10/28/2009
GWC-2	Downgradient	Overburden	1119816.59	2411493.53	377.02	376.9	380.22	57.82	332.12	322.12	10	10/8/2009
GWC-3	Downgradient	Overburden	1119615.01	2411201.98	409.97	409.6	412.66	49.46	373.20	363.20	10	10/29/2009
GWC-4	Downgradient	Overburden	1119255.96	2411041.82	408.50	408.4	411.75	42.85	378.70	368.70	10	11/21/2009
GWC-5	Downgradient	Overburden	1118897.72	2411025.88	393.37	393.3	396.69	38.22	372.84	362.84	10	10/22/2009
GWC-6	Downgradient	Bedrock	1118575.69	2410872.56	412.48	412.4	415.80	47.92	377.52	367.52	10	10/21/2009
GWC-7	Downgradient	Overburden	1118243.67	2410645.91	414.51	414.4	418.27	58.36	369.84	359.84	10	10/20/2009
GWC-8A	Downgradient	Overburden	1117917.32	2410375.16	398.65	398.6	401.62	48.02	364.30	354.30	10	3/29/2017
GWC-9	Downgradient	Overburden	1117955.40	2410167.75	383.21	382.8	386.18	19.87	376.02	366.02	10	11/4/2009
GWC-10	Downgradient	Overburden	1118306.77	2410018.28	389.49	388.9	392.87	39.48	367.50	357.50	10	11/3/2009
GWC-11	Downgradient	Overburden	1118648.98	2409778.84	399.21	398.8	402.33	33.52	377.81	367.81	10	11/3/2009
GWC-12	Downgradient	Overburden	1118977.87	2409554.57	409.66	409.2	412.89	37.23	384.94	374.94	10	11/3/2009
GWC-13	Downgradient	Overburden	1119338.68	2409390.95	416.71	416.5	419.77	42.76	386.52	376.52	10	11/2/2009
GWC-14	Downgradient	Overburden	1119655.05	2409111.75	400.41	400.2	403.60	28.43	386.09	376.09	10	11/4/2009
GWA-15	Upgradient	Overburden	1120009.40	2409282.43	412.00	411.7	415.01	28.31	395.51	385.51	10	11/4/2009
GWA-16	Upgradient	Overburden	1120248.68	2409579.75	441.01	440.9	444.24	58.33	396.71	386.71	10	10/13/2009
GWA-17	Upgradient	Overburden	1120210.57	2409946.73	442.92	442.8	445.84	46.32	409.27	399.27	10	9/28/2009
GWC-18	Downgradient	Overburden	1119998.73	2410261.85	436.40	436.3	439.66	62.86	389.49	379.49	10	9/29/2009
GWC-19	Downgradient	Overburden	1119645.70	2410713.20	426.34	426.3	430.20	73.90	382.45	372.45	10	10/2/2009
GWC-20	Downgradient	Overburden	1119950.51	2411195.38	423.03	423.0	426.30	72.93	363.85	353.85	10	10/6/2009

TABLE 2
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (feet BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
PAC ASH CELL												
GWA-21	Upgradient	Overburden	1120675.73	2409462.70	419.81	419.7	422.58	19.88	412.04	402.04	10	6/29/2010
GWA-22	Upgradient	Overburden/Bedrock	1120962.12	2409473.22	442.01	442.0	444.50	42.49	412.29	402.29	10	6/30/2010
GWC-29	Downgradient	Overburden	1119875.58	2408717.95	396.98	396.9	399.64	27.12	382.78	372.78	10	6/28/2010
GWA-45	Upgradient	Overburden	1120669.03	2407889.56	448.33	448.3	451.08	35.81	425.99	415.99	10	6/23/2010
GWA-46	Upgradient	Overburden	1120783.23	2408235.69	458.37	458.3	461.13	46.31	424.38	414.38	10	6/23/2010
GWA-47	Upgradient	Overburden	1120862.63	2408585.01	463.03*	462.9	465.77	57.87	421.74	411.74	10	6/22/2010
GWA-48	Upgradient	Overburden	1120953.42	2408939.48	459.00	458.8	461.73	74.89	407.74	397.74	10	6/22/2010
GWA-49	Upgradient	Overburden	1121030.08	2409288.38	430.16	429.9	432.88	40.02	401.81	391.81	10	6/21/2010
GWC-50	Downgradient	Overburden	1119917.51	2408956.10	404.44	404.3	407.16	37.82	380.88	370.88	10	6/28/2010
GWC-51	Downgradient	Overburden	1119835.51	2408436.95	407.37	407.3	410.15	29.87	393.78	383.78	10	7/27/2010
GWC-52	Downgradient	Overburden	1119972.34	2408203.99	414.43	414.4	417.13	32.75	394.53	384.53	10	6/24/2010
GWC-53	Downgradient	Overburden	1120319.65	2407943.05	433.10	432.9	435.83	30.93	412.84	402.84	10	6/23/2010

TABLE 2
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location	Screened Matrix	NAD 83 Northing[1]	NAD 83 Easting[1]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[2]	Top of Casing Elevation (feet NAVD88)[2]	Well Depth (feet BTOC)[3]	Top of Screen Elevation (feet NAVD88)[2]	Bottom of Screen Elevation (feet NAVD88)[2]	Screen Length (feet)	Date of Installation
CELL 3												
GWC-30	Downgradient	Overburden/Bedrock	1119366.69	2408976.35	392.19	392.0	394.49	21.5	384.04	374.04	10	1/24/2020
GWC-31	Downgradient	Overburden	1118970.00	2409062.02	390.13	390.0	392.78	21.8	380.68	370.68	10	1/23/2020
GWC-32	Downgradient	Overburden	1118749.53	2409084.83	407.25	406.9	410.03	38.1	381.95	371.95	10	1/21/2020
GWC-33A	Downgradient	Overburden	1118458.68	2409359.58	391.32	390.9	393.96	27.1	376.87	366.87	10	1/25/2020
GWC-34	Downgradient	Overburden	1118248.26	2409680.41	386.48	386.2	389.29	22.1	377.23	367.23	10	1/13/2020
GWC-35	Downgradient	Overburden	1117860.46	2409906.21	385.35	385.1	387.90	22.8	375.10	365.10	10	1/12/2020
GWC-36	Downgradient	Overburden	1117561.29	2409681.44	422.52	422.0	425.12	48.5	386.62	376.62	10	1/10/2020
GWC-37	Downgradient	Overburden	1117239.70	2409636.56	427.38	427.2	429.80	44.6	395.23	385.23	10	1/8/2020
GWC-38	Downgradient	Overburden	1116786.45	2409533.11	416.23	416.0	418.68	41.7	386.98	376.98	10	1/7/2020
GWA-39	Upgradient	Bedrock	1116967.57	2408671.68	454.59	454.2	457.62	62.4	405.24	395.24	10	12/20/2019
GWA-40	Upgradient	Overburden	1117365.24	2408730.04	461.25	461.2	463.84	47.5	427.15	417.15	10	12/18/2020
GWA-41	Upgradient	Overburden	1118096.97	2408412.15	431.70	431.4	434.12	46.7	403.75	393.75	10	1/26/2020
GWA-42	Upgradient	Overburden	1118500.68	2408233.53	402.57	402.2	405.19	21.8	393.37	383.37	10	1/27/2020
GWA-43	Upgradient	Overburden	1118861.38	2408484.42	398.42	398.1	400.94	21.8	389.12	379.12	10	1/26/2020
GWA-44A	Upgradient	Overburden	1119296.99	2408569.76	396.83	396.5	399.62	23.9	386.58	376.58	10	1/27/2020
GWA-54	Upgradient	Bedrock	1117751.40	2408588.52	448.78	448.6	451.49	51.7	409.83	399.83	10	12/21/2020

Notes:
ft = feet; feet bgs = feet below ground surface; feet BTOC = feet below top of casing; * = elevation of pad
[1] Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
[2] Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
[3] Total well depth accounts for sump if data provided on well construction logs.
[4] Survey data provided by Jordan Engineering, Inc., July 2020.
[5] - = not applicable

TABLE 3
SUMMARY OF TEMPORARY PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Scherer
Juliette, GA

Well ID	Hydraulic Location[1]	Screened Matrix	NAD 83 Northing[2]	NAD 83 Easting[2]	Ground Surface Elevation at Concrete Pad (feet NAVD88)	Ground Surface Elevation (feet NAVD88)[3]	Top of Casing Elevation (feet NAVD88)[3]	Well Depth (ft BTOC)[4]	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Screen Length (feet)	Date of Installation
AP-1 TEMPORARY MONITORING WELL NETWORK												
TW-15A-D	Upgradient	Overburden	1120189.12	2407027.84	-	478.0	479.45	53.0	430.00	425.00	5	4/21/2023
TW-15A-S	Upgradient	Overburden	1120190.83	2407024.45	-	478.1	480.51	35.0	448.10	443.10	5	4/21/2023
TW-15B	Upgradient	Overburden	1120256.62	2407040.85	-	478.6	480.34	55.0	433.60	423.60	10	4/26/2023
TW-15C-D	Downgradient	Overburden	1120189.81	2407161.34	-	480.9	482.84	54.8	431.10	426.10	5	4/23/2023
TW-15C-S	Downgradient	Overburden	1120194.11	2407162.60	-	481.2	483.39	40.0	446.20	441.20	5	4/23/2023
TW-18A	Upgradient	Overburden	1116965.40	2406902.84	-	508.6	511.19	50.0	468.60	458.60	10	4/11/2023
TW-18B	Upgradient	Overburden	1117023.66	2406812.55	-	506.4	508.00	38.0	478.40	468.40	10	4/12/2023
TW-18C	Downgradient	Overburden	1117003.68	2406943.25	-	508.6	509.74	53.0	460.60	455.60	5	4/19/2023
TW-18D	Downgradient	Overburden	1116934.18	2406982.98	-	511.2	511.45	50.0	471.20	461.20	10	4/13/2023
TW-20A	Upgradient	Overburden	1116070.31	2405281.44	-	502.1	505.36	55.0	457.10	447.10	10	5/4/2023
TW-20B	Downgradient	Overburden	1115961.41	2405255.26	-	497.8	498.95	55.0	452.80	442.80	10	5/7/2023
TW-20C	Downgradient	Overburden	1115964.03	2405289.21	-	499.5	503.42	48.0	461.50	451.50	10	5/5/2023
TW-20D	Downgradient	Overburden	1115932.86	2405284.54	-	497.5	500.43	46.0	456.50	451.50	5	5/8/2023

Notes:

ft = feet; feet bgs = feet below ground surface; ft BTOC = feet below top of casing

[1] Hydraulic location for each of the temporary wells is identified in relation to the associated detection monitoring well.

[2] Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.

[3] Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.

[4] Total well depth accounts for sump if data provided on well construction logs.

[5] Survey data provided by Jordan Engineering, Inc., June 2023.

[6] - = not applicable

TABLE 4
TEMPORARY GROUNDWATER PIEZOMETER DATA SUMMARY
Georgia Power Company - Plant Scherer
Juliette, Georgia

Analyte	Units	DGWC-15 TRANSECT						DGWC-18 TRANSECT					DGWC-20 TRANSECT				
		DGWC-15	TW-15A-D	TW-15A-S	TW-15B	TW-15C-D	TW-15C-S	DGWC-18	TW-18A	TW-18B	TW-18C	TW-18D	DGWC-20	TW-20A	TW-20B	TW-20C	TW-20D
		Detection	Upgradient	Upgradient	Upgradient	Downgradient	Downgradient	Detection	Upgradient	Upgradient	Downgradient	Downgradient	Detection	Upgradient	Downgradient	Downgradient	Downgradient
		2/23/2023	5/31/2023	5/31/2023	5/31/2023	5/31/2023	5/31/2023	2/22/2023	5/26/2023	5/30/2023	5/25/2023	5/30/2023	2/22/2023	6/1/2023	6/1/2023	6/1/2023	6/1/2023
FIELD MONITORING PARAMETERS																	
pH	S.U.	4.59	5.56	4.32	5.72	6.16	4.49	5	5.28	6.95	5.85	5.66	4.38	6.12	5.93	5.69	5.31
ORP	millivolts	447.2	13.3	478.3	95.4	77.0	191.7	142.6	466.6	79.8	114.6	111.9	336.7	42.8	65.5	72.1	26.8
SPECIFIC CONDUCTANCE	uS/cm	483.49	348.17	539.71	365.77	382.35	425.68	1789.10	1672.8	1274.8	1586.7	2232.42	550.64	445.79	234.11	288.87	362.08
DISSOLVED OXYGEN	mg/L	0.55	0.08	0.59	0.44	0.16	1.52	5.56	0.71	2.05	1.74	1.38	1.64	0.33	0.05	0.79	0.02
TEMPERATURE	C	19.85	18.53	20.25	23.52	22.05	21.83	22.93	21.19	21.52	21.36	25.35	20.18	22.72	21.02	20.93	21.46
TURBIDITY	NTU	3.38	3.82	3.28	15.00	4.44	4.75	1.34	3.20	3.23	1.81	4.81	0.23	4.72	4.77	4.11	4.83
APPENDIX III																	
BORON, TOTAL	mg/L	2.2	0.66	1.4	0.38	1.1	1.4	8.1	7.7	3.6	7.8	6.4	1.7	0.81	0.086	0.28	0.73
BORON, DISSOLVED	mg/L	--	--	--	0.38	--	--	--	--	--	--	--	--	--	--	--	--
CALCIUM, TOTAL	mg/L	14	27	23	27	39	11	41	45	65	71	94	14	40	18	23	20
CALCIUM, DISSOLVED	mg/L	--	--	--	27	--	--	--	--	--	--	--	--	--	--	--	--
CHLORIDE, TOTAL	mg/L	11	7.6	13	6.9	8.8	9.9	13.0	8.7	6.5	8.9	13	8.8	8.8	4.1	6.2	7.7
FLUORIDE, TOTAL	mg/L	0.11	< 0.040	0.43	0.051 J	0.058 J	0.12	0.061	< 0.040	0.58	0.052 J	0.058 J	0.13	0.072 J	0.067 J	0.067 J	0.051 J
SULFATE, TOTAL	mg/L	190	130	220	140	130	170	790	780	490	790	950	230	150	63	100	130
TOTAL DISSOLVED SOLIDS	mg/L	300	240	330	220	260	260	1200	1100	840	1200	1400	350	300	160	190	230
ADDITIONAL PARAMETERS																	
COBALT, TOTAL	mg/L	0.23	0.01	0.23	0.021	0.0023 J	0.2	0.072	0.0068	0.0011 J	0.0031	0.004	0.082	0.00071 J	0.0064	0.0079	0.019
COBALT, DISSOLVED	mg/L	--	0.0097	0.23	0.020	0.0019 J	0.2	--	0.0074	0.00087 J	0.0032	0.0033	--	0.00075 J	0.0071	0.0087	0.021
IRON, TOTAL	mg/L	0.028	0.076 J	0.026 J	0.1	0.026 J	0.014 J	< 0.028	0.012 J	0.04 J	0.023 J	0.21	< 0.028	0.035 J	0.016 J	0.045 J	0.026 J
IRON, DISSOLVED	mg/L	--	--	--	0.019 J	--	--	--	--	--	--	--	--	--	--	--	--
MAGNESIUM	mg/L	13	20	14	22	22	16	18	22	28	34	60	12	19	8.3	10	10
MAGNESIUM, DISSOLVED	mg/L	--	--	--	21	--	--	--	--	--	--	--	--	--	--	--	--
MANGANESE	mg/L	3.1	0.39	3.3	0.57	0.17	3.1	0.64	0.32	0.4	0.33	0.4	1.2	0.082	0.28	0.29	0.37
MANGANESE, DISSOLVED	mg/L	--	--	--	0.55	--	--	--	--	--	--	--	--	--	--	--	--
POTASSIUM	mg/L	4.3	1.2	6.2	1.4	1.5	1.6	3	2.7	1.2	3.2	4.3	3.6	3.3	3.8000	3.3000	4.6
POTASSIUM, DISSOLVED	mg/L	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--	--	--
SODIUM	mg/L	41	12	59	11	7.5	47	320	350	210	300	270	62	16	14	15	27
SODIUM, DISSOLVED	mg/L	--	--	--	12	--	--	--	--	--	--	--	--	--	--	--	--
SULFIDE	mg/L	< 2.1	10	22	< 10	10	29	< 2.1	< 10	11	< 10	19	< 2.1	15	32	19	18
FERRIC IRON	mg/L	0.023	< 0.10	< 0.10	0.1	< 0.10	< 0.10	< 0.0061	< 0.10	< 0.10	< 0.10	0.21	< 0.0061	< 0.10	< 0.10	< 0.10	< 0.10
ALKALINITY , BICARBONATE [as HCO3]	mg/L	< 5.0	12	< 5.0	14	36	< 5.0	< 5.0	< 5.0	150	< 5.0	9.2	< 5.0	48	40	24	7.8
ALKALINITY , CARBONATE [as CaCO3]	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	< 5.0	12	< 2.2	14	36	< 2.2	< 5.0	2.6 J	150	3.8 J	9.2	< 5.0	48	40	24	7.8

NOTES:
1. mg/L - Milligrams per Liter; SU - Standard Units.
2. Hydraulic location for each of the temporary wells is identified in relation to the associated detection monitoring well.
3. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the MDL.
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
5. Due to high turbidity, a filtered and non-filtered sample were collected for TW-15B. Both, total and dissolved metal analysis are presented in the table.

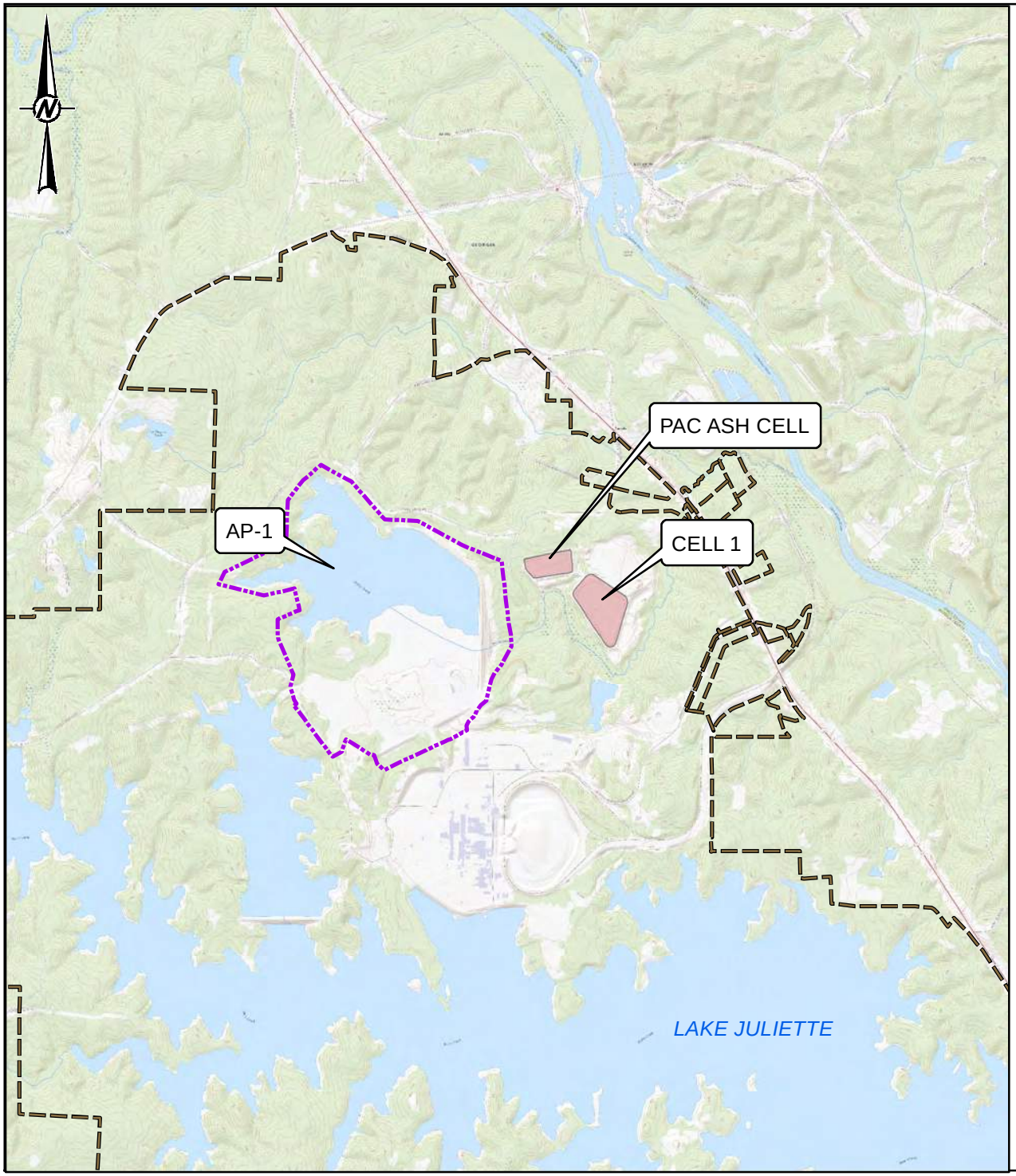
TABLE 5
Proposed ACM Supplementary Data Collection Tasks for July through December 2023
Georgia Power Company – Plant Scherer Ash Pond 1
Juliette, Georgia

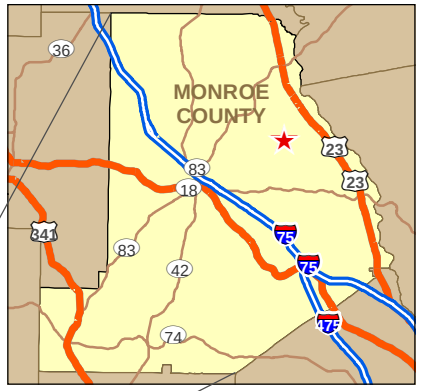
Data Collection Event	Applicable CMs[1]	Applicability / Rationale	Field Component	Parameters of Interest (POI)
Groundwater Sampling	ISI P&T MNA SVBW	Evaluation of attenuation mechanisms and rates and aquifer capacity for attenuation to determine the viability of in-situ injections for remedy selection.	Collect groundwater samples from existing well network currently sampled under the assessment monitoring program as well as additional site piezometers within migration pathway.	In addition to routine App III/IV parameters; sulfide, iron, manganese, magnesium, sodium, potassium, bicarbonate alkalinity, dissolved organic carbon (DOC), and total hardness to be collected at select locations.
Transect Investigation	ISI P&T MNA SVBW	Evaluation of groundwater along groundwater flow paths to refine understanding of nature and extent and to support refinement of the geochemical conceptual site model and to evaluate the applicability of various CMs.	No field component. Data collected during May 2023 investigation will be used to perform geochemical modeling as part of the evaluation.	In addition to routine App III/IV parameters; sulfide, iron (ferrous, ferric), manganese, magnesium, sodium, potassium, bicarbonate alkalinity, dissolved organic carbon (DOC), and total hardness were collected at select locations and data are being reviewed.
Aquifer solids sampling (Collect/Submit archived soil/rock cores) as needed	ISI P&T MNA SVBW	Evaluation of attenuation mechanisms and rates and aquifer capacity for attenuation and/or mineralogical composition to determine the viability of MNA and/or the treatability for ISI.	No field component. Soils samples collected in May 2023.	Pending results from sequential extraction procedure (SEP) for analysis of cobalt (Co) to characterize the aquifer solid matrix; x-ray diffraction (XRD) analysis for mineralogy; total Co, aluminum, iron, and manganese.

[1] Applicable Corrective Measures retained for further evaluation (CMs):

a) Geochemical Approaches (ISI)
b) Hydraulic Containment (P&T)
c) Monitored Natural Attenuation (MNA)
d) Subsurface Vertical Barrier Wall (SVBW).

Figures





LEGEND

PROPERTY BOUNDARY

AP-1 PERMIT BOUNDARY

Service Layer Credits: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset,

0 4000 8000

Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE
SITE LOCATION MAP

CONSULTANT

wsp

YYYY-MM-DD	2023-06-20
PREPARED	DJC
DESIGN	DH
CHECKED	RNQ
REVIEWED/APPROVED	DLP

PROJECT No.	CONTROL	Rev.	FIGURE
GL166235022.000	GL166235022.000P000.mxd	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI A

1 in

0

LEGEND

- DETECTION MONITORING WELL LOCATION
- ASSESSMENT MONITORING WELL LOCATION
- PIEZOMETER LOCATION
- TEMPORARY WELL LOCATION

NOTE

MONITORING WELL LOCATIONS PROVIDED BY JORDAN ENGINEERING.

REFERENCE

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).

2. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.

1200 600 0 1200

Feet

CLIENT

GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT

2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE

MONITORING WELL AND PIEZOMETER LOCATION MAP

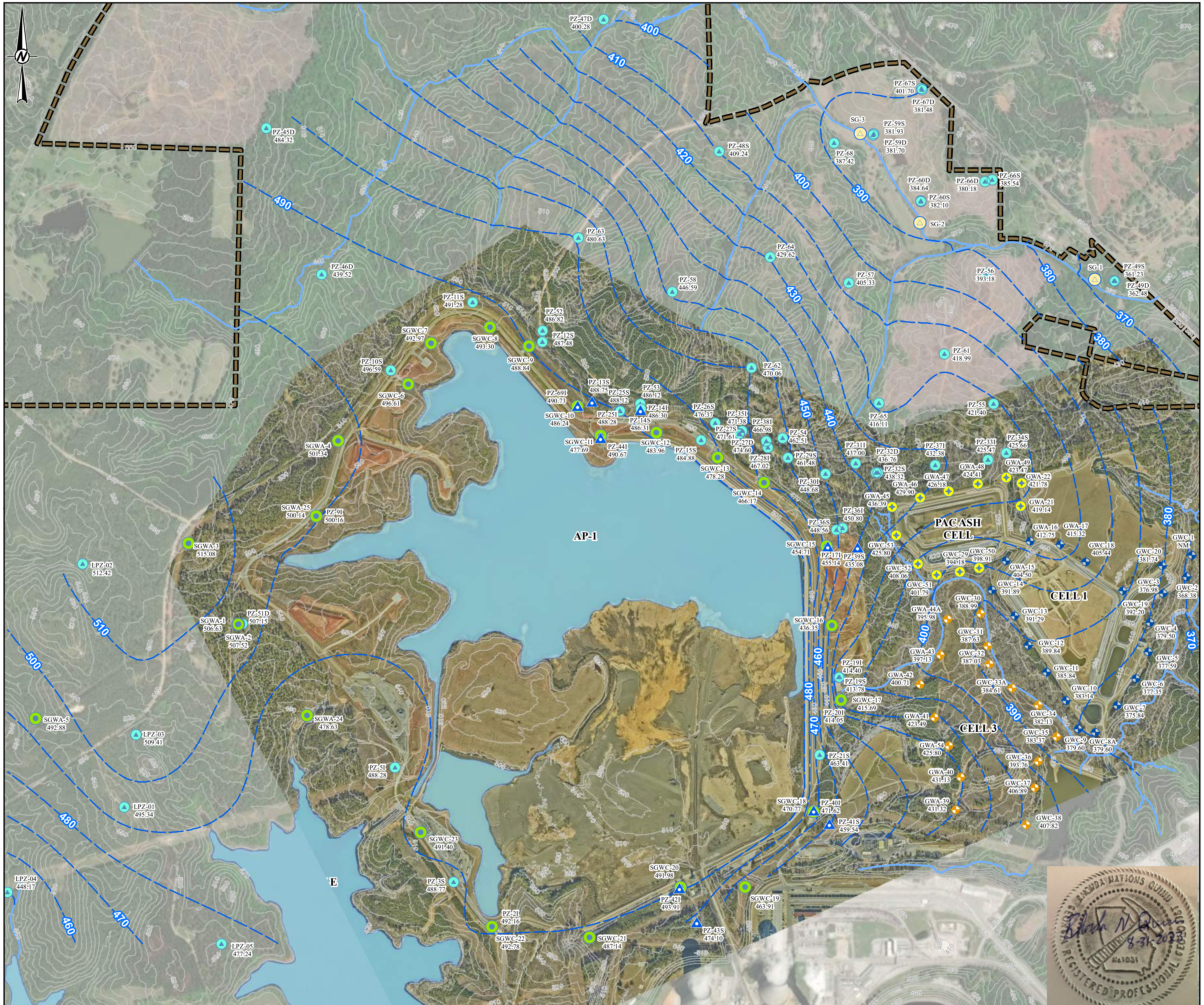
CONSULTANT

wsp

YYYY-MM-DD	2023-06-20
PREPARED	DJC
DESIGN	DH
REVIEW	RNQ
APPROVED	DLP

PROJECT No. GL166235022.000 | CONTROL GL166235022.000P001 | Rev. 0 | FIGURE **2**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- SCHERER ASH POND-CCR MONITORING WELL
- CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- CELL 3 MONITORING WELL
- PIEZOMETER
- STREAM GAUGE LOCATION
- ASSESSMENT WELL LOCATION
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (FT-NAVD 88)
- STREAM
- PROPERTY BOUNDARY
- PONDS
- NM ELEVATION NOT MEASURED

NOTES

1. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED FEBRUARY 21, 2023 BY GOLDER ASSOCIATES.
2. GROUNDWATER ELEVATIONS DISPLAYED IN FEET-NORTH AMERICAN VERTICAL DATUM (FT-NAVD 88).
3. DEEP AND INTERMEDIATE WELL GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.
4. PZ-50D IS NOT SHOWN; ITS LOCATION IS BEYOND THE MAPPED LIMITS.
5. PZ-46D* AND PZ-67D* WERE NOT USED FOR CONTOURING.

REFERENCE

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
2. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY JORDAN ENGINEERING.

1200 600 0 1200 Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

PROJECT
2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE
POTENTIOMETRIC SURFACE MAP
FEBRUARY 21, 2023

CONSULTANT

YYYY-MM-DD	2023-03-16
PREPARED	DJC
DESIGN	DLP
REVIEW	DLP
APPROVED	RNQ

PROJECT No.	CONTROL	Rev.	FIGURE
GL166235022	GL166235022N001-GIS.mxd	0	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B

Path: H:\16x-Projects\GL166235021-Georgia Power-Plant Scherer\figures\N-2023 GW MONITORING\GL166235022N001-GIS.mxd

LEGEND

- SCHERER ASH POND-CCR DETECTION MONITORING WELL
- CELL 1 LANDFILL DETECTION MONITORING WELL
- PAC ASH LANDFILL DETECTION MONITORING WELL
- CELL 3 DETECTION MONITORING WELL
- PIEZOMETER
- STREAM GAUGE LOCATION
- ASSESSMENT MONITORING WELL LOCATION
- SOIL BORING
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (FT-NAVD 88)
- STREAM
- PROPERTY BOUNDARY
- PONDS
- NM ELEVATION NOT MEASURED

NOTES

1. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED FEBRUARY 21, 2023 BY WSP.
2. GROUNDWATER ELEVATIONS DISPLAYED IN FEET-NORTH AMERICAN VERTICAL DATUM (FT-NAVD 88).
3. DEEP AND INTERMEDIATE WELL GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

REFERENCE

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
2. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY JORDAN ENGINEERING.

500 250 0 500 Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE
TRANSECT SOIL BORING LOCATIONS

CONSULTANT
wsp

YYYY-MM-DD	2023-06-20
PREPARED	DJC
DESIGN	DH
REVIEW	RNQ
APPROVED	DLP

PROJECT No. GL166235022.000 | CONTROL GL166235022.000P006 | Rev. 0 | FIGURE **4**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B
1 in
0

LEGEND

- GROUNDWATER ELEVATION CONTOUR (FT. NAVD) - FEBRUARY 2023)
- 0.02 ISOCONCENTRATION CONTOUR
- TEMPORARY WELL LOCATION
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SCHERER ASH POND-CCR DETECTION MONITORING WELL
- PAC ASH CELL DETECTION MONITORING WELL
- CELL 1 LANDFILL DETECTION MONITORING WELL
- CELL 3 LANDFILL DETECTION MONITORING WELL
- SURFACE WATER LOCATION
- DIORITE SILL (OZpd)
- DIABASE (Td)

ANALYTE	UNITS	SCREENING / TARGET LEVELS			
		RSL	MCL	SITE-SPECIFIC BACKGROUND (UPPER TOLERANCE LIMIT)	GWPS
COBALT, TOTAL	mg/L	0.006	N/R	0.02	0.02

RSL = REGIONAL SCREENING LEVEL
MCL = MAXIMUM CONTAMINANT LEVEL
GWPS = GROUNDWATER PROTECTION STANDARD
N/R = NOT REPORTED

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. THE GREEN ISOCONTOUR IS THE APPROXIMATE EXTENT OF COBALT ABOVE 0.02 MG/L IN GROUNDWATER AND IS BASED ON THE AVAILABLE DATA FROM SURROUNDING WELLS AND PIEZOMETERS SHOWN ON THE FIGURE.

3. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L), SAMPLED FROM FEBRUARY TO MAY 2023. J FLAGS INDICATE ESTIMATED VALUE.

4. THE GEOLOGY PRESENTED ON THIS FIGURE IS TAKEN FROM THE GEOLOGIC MAP PREPARED BY PETROLOGIC SOLUTIONS INC. IN 2020.

REFERENCE

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).

2. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY JORDAN ENGINEERING, INC.

1250 625 0 1250
Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE
COBALT ISOCONCENTRATION MAP
FEBRUARY/MAY 2023

CONSULTANT
wsp

YYYY-MM-DD	2023-06-20
PREPARED	DJC
DESIGN	DH
REVIEW	RNQ
APPROVED	DLP

PROJECT No. GL166235022.000 | CONTROL GL166235022.000P002.mxd | Rev. 0 | FIGURE 5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B
1in
0

LEGEND

- GROUNDWATER ELEVATION CONTOUR (FT. NAVD) - (FEBRUARY 2023)
- 0.02 ISOCONCENTRATION CONTOUR
- TEMPORARY WELL LOCATION
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SCHERER ASH POND-CCR DETECTION MONITORING WELL
- DIABASE (Td)

ANALYTE	UNITS	SCREENING / TARGET LEVELS			
		RSL	MCL	SITE-SPECIFIC BACKGROUND (UPPER TOLERANCE LIMIT)	GWPS
COBALT, TOTAL	mg/L	0.006	N/R	0.02	0.02

RSL = REGIONAL SCREENING LEVEL
MCL = MAXIMUM CONTAMINANT LEVEL
GWPS = GROUNDWATER PROTECTION STANDARD
N/R = NOT REPORTED

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. THE GREEN ISOCONTOUR IS THE APPROXIMATE EXTENT OF COBALT ABOVE 0.02 MG/L IN GROUNDWATER AND IS BASED ON THE AVAILABLE DATA FROM SURROUNDING WELLS AND PIEZOMETERS SHOWN ON THE FIGURE.

3. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L), SAMPLED FROM FEBRUARY TO MAY 2023.

REFERENCE

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).

2. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY JORDAN ENGINEERING, INC.

200 100 0 200
Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE
INSET A COBALT ISOCONCENTRATION MAP FEBRUARY/MAY 2023

CONSULTANT
wsp

YYYY-MM-DD	2023-06-20
PREPARED	DJC
DESIGN	DH
REVIEW	RNQ
APPROVED	DLP

PROJECT No. GL166235022.000
CONTROL GL166235022.000P003.mxd
Rev. 0
FIGURE **5A**

LEGEND

- GROUNDWATER ELEVATION CONTOUR (FT. NAVD) - (FEBRUARY 2023)
- 0.02 ISOCONCENTRATION CONTOUR
- TEMPORARY WELL LOCATION
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SCHERER ASH POND-CCR DETECTION MONITORING WELL

ANALYTE	UNITS	SCREENING / TARGET LEVELS			
		RSL	MCL	SITE-SPECIFIC BACKGROUND (UPPER TOLERANCE LIMIT)	GWPS
COBALT, TOTAL	mg/L	0.006	N/R	0.02	0.02

RSL = REGIONAL SCREENING LEVEL
MCL = MAXIMUM CONTAMINANT LEVEL
GWPS = GROUNDWATER PROTECTION STANDARD
N/R = NOT REPORTED

NOTES
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. THE GREEN ISOCONTOUR IS THE APPROXIMATE EXTENT OF COBALT ABOVE 0.02 MG/L IN GROUNDWATER AND IS BASED ON THE AVAILABLE DATA FROM SURROUNDING WELLS AND PIEZOMETERS SHOWN ON THE FIGURE.

3. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L), SAMPLED FROM FEBRUARY TO MAY 2023.

REFERENCE
1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).

2. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY JORDAN ENGINEERING, INC.

100 50 0 100
Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE
INSET B COBALT ISOCONCENTRATION MAP
FEBRUARY/MAY 2023

CONSULTANT
wsp

YYYY-MM-DD	2023-06-20
PREPARED	DJC
DESIGN	DH
REVIEW	RNQ
APPROVED	DLP

PROJECT No. GL166235022.000
CONTROL GL166235022.000P004.mxd
Rev. 0
FIGURE **5B**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B
1in
0

LEGEND

- GROUNDWATER ELEVATION CONTOUR (FT. NAVD) - (FEBRUARY 2023)
- 0.02 ISOCONCENTRATION CONTOUR
- TEMPORARY WELL LOCATION
- ASSESSMENT MONITORING WELL
- SCHERER ASH POND-CCR DETECTION MONITORING WELL
- DIORITE DIKE (OZpd)

ANALYTE	UNITS	SCREENING / TARGET LEVELS			
		RSL	MCL	SITE-SPECIFIC BACKGROUND (UPPER TOLERANCE LIMIT)	GWPS
COBALT, TOTAL	mg/L	0.006	N/R	0.02	0.02

RSL = REGIONAL SCREENING LEVEL
MCL = MAXIMUM CONTAMINANT LEVEL
GWPS = GROUNDWATER PROTECTION STANDARD
N/R = NOT REPORTED

NOTES
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. THE GREEN ISOCONTOUR IS THE APPROXIMATE EXTENT OF COBALT ABOVE 0.02 MG/L IN GROUNDWATER AND IS BASED ON THE AVAILABLE DATA FROM SURROUNDING WELLS AND PIEZOMETERS SHOWN ON THE FIGURE.

3. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L), SAMPLED FROM FEBRUARY TO MAY 2023.

REFERENCE
1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).

2. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY JORDAN ENGINEERING, INC.

200 100 0 200
Feet

CLIENT
GEORGIA POWER COMPANY
PLANT SCHERER
JULIETTE, GEORGIA

Georgia Power

PROJECT
2023 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

TITLE
INSET C COBALT ISOCONCENTRATION MAP FEBRUARY/MAY 2023

CONSULTANT
wsp

YYYY-MM-DD	2023-06-20
PREPARED	DJC
DESIGN	DH
REVIEW	RNQ
APPROVED	DLP

PROJECT No. GL166235022.000 | CONTROL GL166235022.000P005.mxd | Rev. 0 | FIGURE **5C**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B
1 in
0

Appendix A
Field Data Forms and Instrument Calibration Forms

Appendix A
Field Data Forms -
Well Development Forms

Low-Flow Test Report:

Test Date / Time: 5/23/2023 4:45:37 PM
Project: Schemer temp well development (4)
Operator Name: C Mikilitus

Location Name: SCH-TW-15A-D **Well Diameter: 2 in** **Screen Length: 5 ft** **Top of Screen: 49.9 ft** **Total Depth: 54.9 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 51 ft** **Estimated Total Volume Pumped: 8800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 3	
5/23/2023 4:45 PM	00:00	6.09 pH	18.65 °C	368.89 µS/cm	5.30 mg/L	160.00 NTU	-25.7 mV	41.72 ft	220.00 ml/min
5/23/2023 4:55 PM	10:00	5.77 pH	18.11 °C	357.49 µS/cm	1.01 mg/L	525.00 NTU	-85.9 mV	42.82 ft	220.00 ml/min
5/23/2023 5:05 PM	20:00	5.71 pH	18.08 °C	356.87 µS/cm	0.82 mg/L	261.00 NTU	-31.5 mV	45.11 ft	220.00 ml/min
5/23/2023 5:15 PM	30:00	5.68 pH	18.10 °C	354.85 µS/cm	0.73 mg/L	29.10 NTU	-33.0 mV	46.44 ft	220.00 ml/min
5/23/2023 5:25 PM	40:00	5.68 pH	18.09 °C	355.13 µS/cm	0.59 mg/L	8.47 NTU	-44.4 mV	47.45 ft	220.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/24/2023 8:54:21 AM
Project: Schemer temp well development (5)
Operator Name: C Mikilitus

Location Name: SCH-TW-15A-S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 32.5 ft** **Total Depth: 37.5 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 360000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 3	
5/24/2023 8:54 AM	00:00	4.55 pH	18.00 °C	564.24 µS/cm	1.33 mg/L	1,000.00 NTU	241.1 mV	24.62 ft	2,000.0 ml/min
5/24/2023 9:04 AM	10:00	4.49 pH	17.98 °C	549.30 µS/cm	1.30 mg/L	326.00 NTU	418.9 mV	24.88 ft	2,000.0 ml/min
5/24/2023 9:14 AM	20:00	4.47 pH	17.98 °C	549.27 µS/cm	1.23 mg/L	376.00 NTU	398.4 mV	25.10 ft	2,000.0 ml/min
5/24/2023 9:24 AM	30:00	4.47 pH	18.00 °C	549.78 µS/cm	1.18 mg/L	207.00 NTU	440.2 mV	25.05 ft	2,000.0 ml/min
5/24/2023 9:34 AM	40:00	4.47 pH	18.01 °C	550.96 µS/cm	1.16 mg/L	342.00 NTU	398.4 mV	25.18 ft	2,000.0 ml/min
5/24/2023 9:44 AM	50:00	4.47 pH	18.04 °C	545.37 µS/cm	1.17 mg/L	1,000.00 NTU	579.6 mV	25.02 ft	2,000.0 ml/min
5/24/2023 9:54 AM	01:00:00	4.54 pH	18.11 °C	545.25 µS/cm	1.26 mg/L	1,000.00 NTU	337.9 mV	24.73 ft	2,000.0 ml/min
5/24/2023 10:04 AM	01:10:00	4.48 pH	18.10 °C	549.81 µS/cm	1.16 mg/L	1,000.00 NTU	446.8 mV	24.95 ft	2,000.0 ml/min
5/24/2023 10:14 AM	01:20:00	4.45 pH	18.15 °C	548.36 µS/cm	1.15 mg/L	193.00 NTU	397.3 mV	25.24 ft	2,000.0 ml/min
5/24/2023 10:24 AM	01:30:00	4.45 pH	18.16 °C	547.79 µS/cm	1.10 mg/L	81.90 NTU	452.4 mV	25.19 ft	2,000.0 ml/min
5/24/2023 10:34 AM	01:40:00	4.44 pH	18.19 °C	550.20 µS/cm	1.16 mg/L	35.20 NTU	398.0 mV	25.09 ft	2,000.0 ml/min
5/24/2023 10:44 AM	01:50:00	4.44 pH	18.20 °C	551.17 µS/cm	1.15 mg/L	24.10 NTU	451.1 mV	25.20 ft	2,000.0 ml/min
5/24/2023 10:54 AM	02:00:00	4.43 pH	18.16 °C	550.67 µS/cm	1.19 mg/L	20.00 NTU	400.1 mV	24.80 ft	2,000.0 ml/min
5/24/2023 11:04 AM	02:10:00	4.42 pH	18.19 °C	551.11 µS/cm	1.17 mg/L	16.70 NTU	448.3 mV	24.95 ft	2,000.0 ml/min
5/24/2023 11:14 AM	02:20:00	4.42 pH	18.16 °C	550.69 µS/cm	1.17 mg/L	13.70 NTU	399.3 mV	25.20 ft	2,000.0 ml/min
5/24/2023 11:24 AM	02:30:00	4.43 pH	18.21 °C	551.49 µS/cm	1.15 mg/L	12.80 NTU	447.4 mV	25.28 ft	2,000.0 ml/min

5/24/2023 11:34 AM	02:40:00	4.42 pH	18.18 °C	551.12 µS/cm	1.18 mg/L		401.1 mV		2,000.0 ml/min
5/24/2023 11:44 AM	02:50:00	4.43 pH	18.24 °C	548.64 µS/cm	1.13 mg/L	10.70 NTU	447.3 mV	25.10 ft	2,000.0 ml/min
5/24/2023 11:54 AM	03:00:00	4.42 pH	18.22 °C	550.70 µS/cm	1.18 mg/L	7.69 NTU	412.5 mV	25.22 ft	2,000.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/23/2023 4:25:49 PM
Project: Scherer AP-1 temp well development (3)
Operator Name: T Johnson

Location Name: SCH-TW-15B **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft** **Initial Depth to Water: 25.35 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 60000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 1.84 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/23/2023 4:25 PM	00:00	5.83 pH	18.18 °C	351.83 µS/cm	0.46 mg/L	1,000.00 NTU	242.7 mV	27.23 ft	1,000.00 ml/min
5/23/2023 4:35 PM	10:00	5.73 pH	18.08 °C	348.02 µS/cm	0.76 mg/L	1,000.00 NTU	178.0 mV	27.34 ft	1,000.00 ml/min
5/23/2023 4:45 PM	20:00	5.68 pH	18.04 °C	346.97 µS/cm	0.66 mg/L	314.00 NTU	153.2 mV	27.22 ft	1,000.00 ml/min
5/23/2023 4:55 PM	30:00	5.65 pH	18.00 °C	347.13 µS/cm	0.68 mg/L	204.00 NTU	143.1 mV	27.28 ft	1,000.00 ml/min
5/23/2023 5:05 PM	40:00	5.63 pH	17.99 °C	347.11 µS/cm	0.64 mg/L	254.00 NTU	136.8 mV	27.26 ft	1,000.00 ml/min
5/23/2023 5:15 PM	50:00	5.61 pH	18.01 °C	347.78 µS/cm	0.59 mg/L	160.00 NTU	135.1 mV	27.20 ft	1,000.00 ml/min
5/23/2023 5:25 PM	01:00:00	5.61 pH	17.99 °C	348.20 µS/cm	0.61 mg/L	180.00 NTU	131.1 mV	27.19 ft	1,000.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/24/2023 8:46:16 AM
Project: Scherer AP-1 temp well development (4)
Operator Name: T Johnson

Location Name: SCH-TW-15B **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft** **Initial Depth to Water: 23.96 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 216000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 2.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/24/2023 8:46 AM	00:00	5.73 pH	17.99 °C	344.66 µS/cm	0.59 mg/L	274.00 NTU	132.1 mV	27.07 ft	1,200.0 ml/min
5/24/2023 8:56 AM	10:00	5.66 pH	17.90 °C	346.95 µS/cm	0.63 mg/L	163.00 NTU	117.7 mV	27.11 ft	1,200.0 ml/min
5/24/2023 9:06 AM	20:00	5.63 pH	17.90 °C	347.12 µS/cm	0.61 mg/L	89.40 NTU	112.5 mV	26.99 ft	1,200.0 ml/min
5/24/2023 9:16 AM	30:00	5.53 pH	17.91 °C	348.92 µS/cm	0.72 mg/L	170.00 NTU	118.8 mV	27.33 ft	1,200.0 ml/min
5/24/2023 9:26 AM	40:00	5.60 pH	17.94 °C	349.10 µS/cm	0.75 mg/L	79.40 NTU	115.9 mV	27.21 ft	1,200.0 ml/min
5/24/2023 9:36 AM	50:00	5.59 pH	17.95 °C	350.13 µS/cm	0.75 mg/L	54.60 NTU	116.5 mV	27.33 ft	1,200.0 ml/min
5/24/2023 9:46 AM	01:00:00	5.59 pH	18.01 °C	351.01 µS/cm	0.68 mg/L	348.00 NTU	117.4 mV	27.39 ft	1,200.0 ml/min
5/24/2023 9:56 AM	01:10:00	5.59 pH	18.08 °C	350.85 µS/cm	0.72 mg/L	136.00 NTU	117.7 mV	27.32 ft	1,200.0 ml/min
5/24/2023 10:06 AM	01:20:00	5.58 pH	18.11 °C	350.82 µS/cm	0.74 mg/L	54.50 NTU	118.4 mV	27.30 ft	1,200.0 ml/min
5/24/2023 10:16 AM	01:30:00	5.58 pH	18.26 °C	352.52 µS/cm	0.73 mg/L	35.90 NTU	118.8 mV	27.25 ft	1,200.0 ml/min
5/24/2023 10:26 AM	01:40:00	5.60 pH	18.21 °C	353.34 µS/cm	0.71 mg/L	24.20 NTU	118.0 mV	27.25 ft	1,200.0 ml/min
5/24/2023 10:36 AM	01:50:00	5.59 pH	18.35 °C	353.14 µS/cm	0.74 mg/L	23.70 NTU	118.9 mV	27.29 ft	1,200.0 ml/min
5/24/2023 10:46 AM	02:00:00	5.59 pH	18.28 °C	353.82 µS/cm	0.75 mg/L	21.60 NTU	117.8 mV	27.24 ft	1,200.0 ml/min
5/24/2023 10:56 AM	02:10:00	5.59 pH	18.25 °C	354.20 µS/cm	0.75 mg/L	18.80 NTU	117.6 mV	27.28 ft	1,200.0 ml/min
5/24/2023 11:06 AM	02:20:00	5.59 pH	18.26 °C	355.87 µS/cm	0.80 mg/L	18.90 NTU	115.7 mV	27.28 ft	1,200.0 ml/min

5/24/2023 11:16 AM	02:30:00	5.59 pH	18.29 °C	357.56 µS/cm	0.76 mg/L	23.60 NTU	129.4 mV	27.25 ft	1,200.0 ml/min
5/24/2023 11:26 AM	02:40:00	5.75 pH	18.52 °C	348.51 µS/cm	0.42 mg/L	11.30 NTU	106.1 mV	26.30 ft	1,200.0 ml/min
5/24/2023 11:36 AM	02:50:00	5.60 pH	18.66 °C	354.64 µS/cm	0.53 mg/L	7.95 NTU	110.7 mV	26.24 ft	1,200.0 ml/min
5/24/2023 11:46 AM	03:00:00	5.60 pH	18.80 °C	354.41 µS/cm	0.56 mg/L	4.34 NTU	110.5 mV	26.25 ft	1,200.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/24/2023 3:36:14 PM
Project: Scherer well development
Operator Name: TE

Location Name: SCH-TW-15C-D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 49.8 ft** **Total Depth: 54.8 ft** **Initial Depth to Water: 30.15 ft**	**Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 2.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/24/2023 3:36 PM	00:00	6.31 pH	22.42 °C	334.80 µS/cm	9.54 mg/L	32.50 NTU	97.5 mV	32.50 ft	600.00 ml/min
5/24/2023 3:46 PM	10:00	6.12 pH	19.28 °C	344.24 µS/cm	1.11 mg/L	32.50 NTU	128.6 mV	32.50 ft	600.00 ml/min
5/24/2023 3:56 PM	20:00	6.08 pH	18.87 °C	344.15 µS/cm	0.96 mg/L	1,000.00 NTU	92.3 mV	32.20 ft	1,000.00 ml/min
5/24/2023 4:06 PM	30:00	6.05 pH	18.70 °C	342.79 µS/cm	0.81 mg/L	56.10 NTU	80.4 mV	32.20 ft	1,000.00 ml/min
5/24/2023 4:16 PM	40:00	6.04 pH	18.70 °C	343.23 µS/cm	0.78 mg/L	760.00 NTU	73.3 mV	32.20 ft	1,000.00 ml/min
5/24/2023 4:26 PM	50:00	6.01 pH	18.67 °C	342.26 µS/cm	0.61 mg/L	54.30 NTU	70.7 mV	32.20 ft	1,000.00 ml/min
5/24/2023 4:36 PM	01:00:00	6.00 pH	18.65 °C	342.37 µS/cm	0.65 mg/L	608.00 NTU	67.5 mV	32.20 ft	1,000.00 ml/min
5/24/2023 4:46 PM	01:10:00	6.00 pH	18.65 °C	342.50 µS/cm	0.61 mg/L	44.80 NTU	66.3 mV	32.20 ft	1,000.00 ml/min
5/24/2023 4:56 PM	01:20:00	5.99 pH	18.61 °C	343.04 µS/cm	0.53 mg/L	13.00 NTU	78.4 mV	32.20 ft	1,000.00 ml/min
5/24/2023 5:06 PM	01:30:00	5.98 pH	18.66 °C	341.98 µS/cm	0.35 mg/L	11.00 NTU	61.2 mV	32.20 ft	1,000.00 ml/min
5/24/2023 5:16 PM	01:40:00	5.99 pH	18.64 °C	342.11 µS/cm	0.28 mg/L	101.00 NTU	58.2 mV	33.10 ft	1,000.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/23/2023 4:39:57 PM
Project: Plant Scherer
Operator Name: TE

Location Name: SCH-TW-15C-S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 35 ft** **Total Depth: 40 ft** **Initial Depth to Water: 31.53 ft**	**Pump Type: Reclaimer** **Tubing Type: HDPE** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 41200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 800 ml/min** **Final Draw Down: 1.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
72°, cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/23/2023 4:39 PM	00:00	4.94 pH	18.73 °C	429.78 µS/cm	10.23 mg/L		233.7 mV	33.15 ft	800.00 ml/min
5/23/2023 4:41 PM	01:30	4.98 pH	18.67 °C	361.79 µS/cm	10.18 mg/L	645.00 NTU	242.1 mV	33.15 ft	800.00 ml/min
5/23/2023 4:51 PM	11:30	4.96 pH	18.56 °C	359.75 µS/cm	10.39 mg/L	641.00 NTU	204.6 mV	33.15 ft	800.00 ml/min
5/23/2023 5:01 PM	21:30	4.97 pH	18.53 °C	372.89 µS/cm	10.26 mg/L	481.00 NTU	182.8 mV	33.15 ft	800.00 ml/min
5/23/2023 5:11 PM	31:30	4.98 pH	18.52 °C	300.88 µS/cm	10.31 mg/L	335.00 NTU	182.2 mV	33.20 ft	800.00 ml/min
5/23/2023 5:21 PM	41:30	4.97 pH	18.52 °C	140.96 µS/cm	10.36 mg/L	213.00 NTU	184.9 mV	33.20 ft	800.00 ml/min
5/23/2023 5:31 PM	51:30	4.98 pH	18.48 °C	289.26 µS/cm	10.21 mg/L	506.00 NTU	184.0 mV	33.20 ft	800.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/24/2023 8:56:57 AM
Project: Plant Scherer (9)
Operator Name: TE

Location Name: SCH-TW-15C-S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 35 ft** **Total Depth: 40 ft**	**Pump Type: Reclaimer** **Tubing Type: HDPE** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 145140 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 400 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/24/2023 8:56 AM	00:00	4.85 pH	18.65 °C	198.28 µS/cm	10.07 mg/L	375.00 NTU	272.1 mV	33.20 ft	800.00 ml/min
5/24/2023 9:06 AM	10:00	4.94 pH	18.39 °C	368.19 µS/cm	10.11 mg/L	192.00 NTU	224.0 mV	33.20 ft	800.00 ml/min
5/24/2023 9:16 AM	20:00	4.80 pH	18.41 °C	357.91 µS/cm	10.19 mg/L	1,000.00 NTU	207.1 mV	33.20 ft	800.00 ml/min
5/24/2023 9:26 AM	30:00	4.94 pH	18.41 °C	243.03 µS/cm	10.14 mg/L	581.00 NTU	226.6 mV	33.20 ft	800.00 ml/min
5/24/2023 9:36 AM	40:00	4.99 pH	18.43 °C	274.57 µS/cm	10.08 mg/L	204.00 NTU	202.7 mV	33.20 ft	800.00 ml/min
5/24/2023 9:46 AM	50:00	4.96 pH	18.48 °C	243.69 µS/cm	10.16 mg/L	448.00 NTU	231.0 mV	33.20 ft	800.00 ml/min
5/24/2023 9:56 AM	01:00:00	5.00 pH	18.47 °C	365.94 µS/cm	10.07 mg/L	288.00 NTU	203.3 mV	33.20 ft	800.00 ml/min
5/24/2023 10:06 AM	01:10:00	4.99 pH	18.52 °C	357.75 µS/cm	10.00 mg/L	280.00 NTU	201.7 mV	33.20 ft	800.00 ml/min
5/24/2023 10:16 AM	01:20:00	4.98 pH	18.56 °C	294.39 µS/cm	10.10 mg/L	332.00 NTU	200.7 mV	33.20 ft	800.00 ml/min
5/24/2023 10:26 AM	01:30:00	5.00 pH	18.56 °C	329.14 µS/cm	10.12 mg/L	248.00 NTU	201.4 mV	33.20 ft	800.00 ml/min
5/24/2023 10:36 AM	01:40:00	4.70 pH	19.41 °C	394.14 µS/cm	6.97 mg/L	143.00 NTU	207.4 mV	33.20 ft	400.00 ml/min
5/24/2023 10:46 AM	01:50:00	4.59 pH	19.23 °C	396.38 µS/cm	2.98 mg/L	156.00 NTU	178.8 mV	32.50 ft	400.00 ml/min
5/24/2023 10:56 AM	02:00:00	4.58 pH	19.24 °C	396.98 µS/cm	2.73 mg/L	74.80 NTU	176.4 mV	32.50 ft	400.00 ml/min
5/24/2023 11:06 AM	02:10:00	4.58 pH	19.26 °C	397.27 µS/cm	2.53 mg/L	46.10 NTU	191.9 mV	32.50 ft	400.00 ml/min
5/24/2023 11:16 AM	02:20:00	4.58 pH	19.28 °C	396.46 µS/cm	2.46 mg/L	29.60 NTU	169.5 mV	31.86 ft	400.00 ml/min
5/24/2023 11:26 AM	02:30:00	4.58 pH	19.31 °C	393.42 µS/cm	2.72 mg/L	239.00 NTU	169.7 mV	31.86 ft	600.00 ml/min

5/24/2023 11:36 AM	02:40:00	4.88 pH	20.39 °C	310.32 µS/cm	9.03 mg/L	157.00 NTU	179.1 mV	31.86 ft	400.00 ml/min
5/24/2023 11:46 AM	02:50:00	4.59 pH	19.61 °C	396.19 µS/cm	3.78 mg/L	73.90 NTU	177.1 mV	31.86 ft	400.00 ml/min
5/24/2023 11:56 AM	03:00:00	4.59 pH	19.50 °C	395.89 µS/cm	2.82 mg/L	28.10 NTU	167.6 mV	31.86 ft	400.00 ml/min
5/24/2023 12:06 PM	03:10:00	4.59 pH	19.72 °C	396.81 µS/cm	2.63 mg/L	14.70 NTU	167.8 mV	31.86 ft	400.00 ml/min
5/24/2023 12:16 PM	03:20:00	4.58 pH	19.81 °C	396.46 µS/cm	2.47 mg/L	13.20 NTU	165.0 mV	31.95 ft	400.00 ml/min
5/24/2023 12:24 PM	03:27:51	4.57 pH	19.86 °C	397.74 µS/cm	2.37 mg/L	9.23 NTU	176.3 mV	31.95 ft	400.00 ml/min
5/24/2023 12:34 PM	03:37:51	4.58 pH	19.94 °C	398.08 µS/cm	2.26 mg/L	8.07 NTU	184.8 mV	31.95 ft	400.00 ml/min
5/24/2023 12:44 PM	03:47:51	4.58 pH	19.95 °C	397.69 µS/cm	2.21 mg/L	7.93 NTU	164.3 mV	31.95 ft	400.00 ml/min
5/24/2023 12:54 PM	03:57:51	4.58 pH	20.21 °C	396.81 µS/cm	2.15 mg/L	7.26 NTU	160.9 mV	31.95 ft	400.00 ml/min
5/24/2023 1:04 PM	04:07:51	4.58 pH	20.66 °C	396.94 µS/cm	2.07 mg/L	5.47 NTU	161.7 mV	31.95 ft	400.00 ml/min
5/24/2023 1:14 PM	04:17:51	4.57 pH	20.69 °C	397.77 µS/cm	2.00 mg/L	4.32 NTU	161.2 mV	31.95 ft	400.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/23/2023 11:09:34 AM
Project: Scherer AP-1 temp well development (2)
Operator Name: T Johnson

Location Name: SCH-TW-18A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40 ft** **Total Depth: 50 ft** **Initial Depth to Water: 36.68 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 241383.328 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 0.63 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/23/2023 11:09 AM	00:00	5.46 pH	20.17 °C	1,752.5 µS/cm	2.13 mg/L	405.00 NTU	158.6 mV	35.85 ft	1,000.00 ml/min
5/23/2023 11:19 AM	10:00	5.32 pH	20.17 °C	1,733.3 µS/cm	1.48 mg/L	185.00 NTU	199.1 mV	36.40 ft	1,000.00 ml/min
5/23/2023 11:29 AM	20:00	5.29 pH	20.13 °C	1,754.0 µS/cm	1.26 mg/L	25.60 NTU	250.5 mV	37.32 ft	1,000.00 ml/min
5/23/2023 11:39 AM	30:00	5.29 pH	20.21 °C	1,737.1 µS/cm	1.18 mg/L	1,000.00 NTU	258.4 mV	37.35 ft	1,000.00 ml/min
5/23/2023 11:49 AM	40:00	5.27 pH	20.22 °C	1,765.4 µS/cm	1.19 mg/L	1,000.00 NTU	282.6 mV	37.23 ft	1,000.00 ml/min
5/23/2023 11:59 AM	50:00	5.28 pH	20.27 °C	1,751.8 µS/cm	1.10 mg/L	16.10 NTU	294.7 mV	37.29 ft	1,000.00 ml/min
5/23/2023 12:09 PM	01:00:00	5.28 pH	20.30 °C	1,747.0 µS/cm	1.15 mg/L	1,000.00 NTU	288.2 mV	37.43 ft	1,000.00 ml/min
5/23/2023 12:19 PM	01:10:00	5.27 pH	20.22 °C	1,745.0 µS/cm	1.15 mg/L	105.00 NTU	310.2 mV	37.38 ft	1,000.00 ml/min
5/23/2023 12:29 PM	01:20:00	5.28 pH	20.22 °C	1,701.2 µS/cm	1.09 mg/L	1,000.00 NTU	368.0 mV	37.35 ft	1,000.00 ml/min
5/23/2023 12:39 PM	01:30:00	5.27 pH	20.22 °C	1,758.3 µS/cm	1.14 mg/L	184.00 NTU	330.0 mV	37.28 ft	1,000.00 ml/min
5/23/2023 12:49 PM	01:40:00	5.27 pH	20.22 °C	1,753.2 µS/cm	1.13 mg/L	31.50 NTU	334.6 mV	37.19 ft	1,000.00 ml/min
5/23/2023 12:59 PM	01:50:00	5.27 pH	20.26 °C	1,738.4 µS/cm	1.15 mg/L	1,000.00 NTU	327.6 mV	37.32 ft	1,000.00 ml/min
5/23/2023 1:09 PM	02:00:00	5.26 pH	20.22 °C	1,758.6 µS/cm	1.14 mg/L	187.00 NTU	348.4 mV	37.07 ft	1,000.00 ml/min
5/23/2023 1:19 PM	02:10:00	5.26 pH	20.25 °C	1,733.4 µS/cm	1.16 mg/L	21.00 NTU	347.4 mV	37.27 ft	1,000.00 ml/min
5/23/2023 1:29 PM	02:20:00	5.27 pH	20.29 °C	1,734.2 µS/cm	1.14 mg/L	11.50 NTU	342.3 mV	37.25 ft	1,000.00 ml/min

5/23/2023 1:39 PM	02:30:00	5.27 pH	20.30 °C	1,751.6 µS/cm	1.19 mg/L	7.46 NTU	351.4 mV	37.27 ft	1,000.00 ml/min
5/23/2023 1:49 PM	02:40:00	5.27 pH	20.26 °C	1,753.7 µS/cm	1.14 mg/L	6.77 NTU	366.1 mV	37.25 ft	1,000.00 ml/min
5/23/2023 1:59 PM	02:50:00	5.29 pH	20.27 °C	1,730.4 µS/cm	1.03 mg/L	526.00 NTU	318.2 mV	37.41 ft	1,000.00 ml/min
5/23/2023 2:10 PM	03:01:23	5.27 pH	20.26 °C	1,768.8 µS/cm	0.88 mg/L	45.20 NTU	401.4 mV	37.46 ft	1,000.00 ml/min
5/23/2023 2:20 PM	03:11:23	5.26 pH	20.26 °C	1,735.1 µS/cm	0.87 mg/L	1,000.00 NTU	375.1 mV	37.33 ft	1,000.00 ml/min
5/23/2023 2:30 PM	03:21:23	5.26 pH	20.18 °C	1,738.4 µS/cm	0.90 mg/L	71.50 NTU	384.6 mV	37.32 ft	1,000.00 ml/min
5/23/2023 2:40 PM	03:31:23	5.26 pH	20.18 °C	1,749.1 µS/cm	0.85 mg/L	782.00 NTU	390.5 mV	37.26 ft	1,000.00 ml/min
5/23/2023 2:50 PM	03:41:23	5.27 pH	20.19 °C	1,741.3 µS/cm	0.87 mg/L	93.20 NTU	394.7 mV	37.25 ft	1,000.00 ml/min
5/23/2023 3:00 PM	03:51:23	5.26 pH	20.22 °C	1,756.1 µS/cm	0.88 mg/L	26.00 NTU	393.5 mV	37.20 ft	1,000.00 ml/min
5/23/2023 3:10 PM	04:01:23	5.26 pH	20.32 °C	1,747.2 µS/cm	0.89 mg/L	9.90 NTU	391.4 mV	37.31 ft	1,000.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/25/2023 9:32:33 AM
Project: Plant Scherer
Operator Name: TE

Location Name: SCH-TW-18B **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30.02 ft** **Total Depth: 40.02 ft** **Initial Depth to Water: 30.32 ft**	**Pump Type: Reclaimer** **Tubing Type: HDPE** **Pump Intake From TOC: 38 ft** **Flow Cell Volume: 90 ml** **Final Flow Rate: 400 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
64°, clear, sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/25/2023 9:32 AM	00:00	6.63 pH	23.06 °C	1.47 mS/cm	4.15 mg/L	391.00 NTU	167.8 mV	30.51 ft	1,000.00 ml/min
5/25/2023 9:40 AM	07:38	7.72 pH	20.30 °C	1.74 mS/cm	9.57 mg/L	292.00 NTU	83.2 mV	30.65 ft	800.00 ml/min
5/25/2023 9:42 AM	09:42	7.76 pH	20.30 °C	1.47 mS/cm	9.65 mg/L	292.00 NTU	96.6 mV	30.65 ft	800.00 ml/min
5/25/2023 9:43 AM	10:27	7.74 pH	20.26 °C	1.59 mS/cm	9.69 mg/L	292.00 NTU	85.5 mV	30.65 ft	800.00 ml/min
5/25/2023 9:53 AM	20:27	7.66 pH	20.32 °C	0.56 mS/cm	9.75 mg/L	1,000.00 NTU	119.8 mV	30.65 ft	800.00 ml/min
5/25/2023 10:01 AM	28:48	7.77 pH	20.35 °C	1.05 mS/cm	9.66 mg/L	233.00 NTU	95.5 mV	30.65 ft	800.00 ml/min
5/25/2023 10:11 AM	38:48	7.75 pH	20.39 °C	0.71 mS/cm	9.60 mg/L	97.50 NTU	79.8 mV	30.65 ft	800.00 ml/min
5/25/2023 10:21 AM	48:48	7.54 pH	20.45 °C	1.12 mS/cm	9.53 mg/L	1,000.00 NTU	117.6 mV	30.65 ft	800.00 ml/min
5/25/2023 10:31 AM	58:48	7.72 pH	20.38 °C	1.14 mS/cm	9.58 mg/L	370.00 NTU	115.3 mV	30.65 ft	800.00 ml/min
5/25/2023 10:41 AM	01:09:08	7.72 pH	22.16 °C	1.31 mS/cm	8.76 mg/L	322.00 NTU	70.8 mV	30.65 ft	800.00 ml/min
5/25/2023 10:51 AM	01:19:08	7.76 pH	20.43 °C	1.16 mS/cm	9.78 mg/L	224.00 NTU	78.2 mV	30.65 ft	800.00 ml/min
5/25/2023 11:01 AM	01:29:08	7.76 pH	20.42 °C	1.07 mS/cm	9.72 mg/L	233.00 NTU	104.7 mV	30.65 ft	800.00 ml/min
5/25/2023 11:11 AM	01:39:08	7.77 pH	20.48 °C	0.74 mS/cm	9.63 mg/L	284.00 NTU	82.8 mV	30.65 ft	600.00 ml/min
5/25/2023 11:21 AM	01:49:08	7.66 pH	21.32 °C	1.39 mS/cm	8.93 mg/L	307.00 NTU	79.8 mV	30.65 ft	600.00 ml/min

5/25/2023 11:31 AM	01:59:08	7.74 pH	20.58 °C	1.08 mS/cm	9.67 mg/L	762.00 NTU	78.0 mV	30.65 ft	600.00 ml/min
5/25/2023 11:41 AM	02:09:08	7.77 pH	20.53 °C	0.37 mS/cm	9.61 mg/L	1,000.00 NTU	78.5 mV	30.65 ft	600.00 ml/min
5/25/2023 11:51 AM	02:19:08	7.69 pH	23.52 °C	1.29 mS/cm	8.51 mg/L	1,000.00 NTU	99.1 mV	30.65 ft	600.00 ml/min
5/25/2023 11:53 AM	02:20:28	7.32 pH	21.82 °C	1.26 mS/cm	4.61 mg/L	1,000.00 NTU	97.5 mV	30.65 ft	600.00 ml/min
5/25/2023 12:31 PM	02:58:58	7.30 pH	21.07 °C	1.15 mS/cm	4.64 mg/L	1,000.00 NTU	154.5 mV	30.65 ft	600.00 ml/min
5/25/2023 12:41 PM	03:08:58	7.40 pH	20.97 °C	0.30 mS/cm	7.27 mg/L	1,000.00 NTU	89.9 mV	30.65 ft	600.00 ml/min
5/25/2023 12:51 PM	03:18:58	5.87 pH	21.47 °C	0.00 mS/cm	8.59 mg/L	1,000.00 NTU	132.6 mV	30.65 ft	600.00 ml/min
5/25/2023 1:01 PM	03:28:58	7.32 pH	20.97 °C	1.08 mS/cm	5.66 mg/L	1,000.00 NTU	93.8 mV	30.65 ft	600.00 ml/min
5/25/2023 1:11 PM	03:38:58	7.51 pH	21.52 °C	0.38 mS/cm	8.27 mg/L	320.00 NTU	117.1 mV	30.65 ft	600.00 ml/min
5/25/2023 1:21 PM	03:48:58	7.73 pH	23.25 °C	1.14 mS/cm	8.63 mg/L	345.00 NTU	85.8 mV	30.65 ft	600.00 ml/min
5/25/2023 1:24 PM	03:52:04	7.36 pH	23.16 °C	1.09 mS/cm	5.95 mg/L	1,000.00 NTU	101.1 mV	30.65 ft	600.00 ml/min
5/25/2023 1:34 PM	04:02:04	7.03 pH	21.96 °C	1.10 mS/cm	3.67 mg/L	1,000.00 NTU	86.9 mV	30.50 ft	400.00 ml/min
5/25/2023 1:44 PM	04:12:04	7.04 pH	22.09 °C	1.16 mS/cm	2.66 mg/L	1,000.00 NTU	79.2 mV	30.50 ft	400.00 ml/min
5/25/2023 1:54 PM	04:22:04	7.02 pH	22.15 °C	1.19 mS/cm	2.53 mg/L	1,000.00 NTU	80.8 mV	30.50 ft	400.00 ml/min
5/25/2023 2:04 PM	04:32:04	7.03 pH	23.47 °C	1.23 mS/cm	2.46 mg/L	327.00 NTU	78.3 mV	30.50 ft	400.00 ml/min
5/25/2023 2:14 PM	04:42:04	7.78 pH	21.10 °C	0.71 mS/cm	9.72 mg/L	1,000.00 NTU	132.4 mV	30.50 ft	400.00 ml/min
5/25/2023 2:24 PM	04:52:04	7.66 pH	20.89 °C	0.80 mS/cm	9.76 mg/L	1,000.00 NTU	139.6 mV	30.50 ft	400.00 ml/min
5/25/2023 2:34 PM	05:02:04	7.76 pH	20.97 °C	1.07 mS/cm	9.66 mg/L	560.00 NTU	92.6 mV	30.55 ft	400.00 ml/min
5/25/2023 2:44 PM	05:12:04	7.70 pH	22.83 °C	1.02 mS/cm	8.57 mg/L	551.00 NTU	90.7 mV	30.40 ft	600.00 ml/min
5/25/2023 2:54 PM	05:22:04	7.11 pH	22.17 °C	1.20 mS/cm	3.63 mg/L	1,000.00 NTU	93.3 mV	30.40 ft	600.00 ml/min
5/25/2023 3:04 PM	05:32:04	7.02 pH	22.34 °C	1.10 mS/cm	3.19 mg/L	683.00 NTU	109.0 mV	30.45 ft	600.00 ml/min
5/25/2023 3:14 PM	05:42:04	7.03 pH	22.22 °C	1.12 mS/cm	2.93 mg/L	1,000.00 NTU	81.6 mV	30.45 ft	600.00 ml/min
5/25/2023 3:24 PM	05:52:04	7.02 pH	22.49 °C	1.08 mS/cm	2.85 mg/L	1,000.00 NTU	79.5 mV	30.45 ft	600.00 ml/min
5/25/2023 3:34 PM	06:02:04	7.01 pH	22.41 °C	1.19 mS/cm	2.55 mg/L	518.00 NTU	79.9 mV	30.45 ft	600.00 ml/min
5/25/2023 3:44 PM	06:12:04	7.04 pH	22.35 °C	1.18 mS/cm	2.51 mg/L	233.00 NTU	78.8 mV	30.45 ft	600.00 ml/min
5/25/2023 3:54 PM	06:22:04	7.04 pH	22.46 °C	1.18 mS/cm	2.46 mg/L	348.00 NTU	99.2 mV	30.45 ft	600.00 ml/min
5/25/2023 4:04 PM	06:32:04	7.70 pH	20.83 °C	1.01 mS/cm	9.78 mg/L	106.00 NTU	111.6 mV	30.45 ft	600.00 ml/min
5/25/2023 4:14 PM	06:42:04	7.37 pH	21.35 °C	1.37 mS/cm	5.80 mg/L	37.20 NTU	102.2 mV	30.45 ft	600.00 ml/min
5/25/2023 4:24 PM	06:52:04	7.48 pH	22.80 °C	1.13 mS/cm	8.67 mg/L	582.00 NTU	97.1 mV	30.40 ft	600.00 ml/min

5/25/2023 4:34 PM	07:02:04	8.14 pH	21.82 °C	0.93 mS/cm	8.98 mg/L	92.20 NTU	85.6 mV	30.40 ft	800.00 ml/min
5/25/2023 4:44 PM	07:12:04	7.58 pH	23.97 °C	0.92 mS/cm	9.37 mg/L	220.00 NTU	120.4 mV	30.35 ft	800.00 ml/min
5/25/2023 4:54 PM	07:22:04	8.00 pH	20.97 °C	0.88 mS/cm	9.69 mg/L	183.00 NTU	109.7 mV	30.35 ft	800.00 ml/min
5/25/2023 5:04 PM	07:32:04	7.92 pH	20.74 °C	0.25 mS/cm	9.63 mg/L	220.00 NTU	88.8 mV	30.45 ft	800.00 ml/min
5/25/2023 5:14 PM	07:42:04	7.89 pH	20.83 °C	1.09 mS/cm	9.33 mg/L	410.00 NTU	78.3 mV	30.45 ft	800.00 ml/min
5/25/2023 5:16 PM	07:43:38	7.98 pH	20.79 °C	1.29 mS/cm	9.34 mg/L	410.00 NTU	77.1 mV	30.45 ft	800.00 ml/min
5/25/2023 5:26 PM	07:53:38	8.00 pH	22.44 °C	0.56 mS/cm	8.51 mg/L	129.00 NTU	82.5 mV	30.45 ft	800.00 ml/min
5/25/2023 5:36 PM	08:03:38	7.87 pH	22.10 °C	1.44 mS/cm	8.59 mg/L	282.00 NTU	80.0 mV	30.45 ft	400.00 ml/min
5/25/2023 5:46 PM	08:13:38	7.93 pH	20.62 °C	0.97 mS/cm	9.78 mg/L	391.00 NTU	99.1 mV	30.45 ft	400.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/26/2023 9:11:10 AM
Project: Schemer temp well development (9)
Operator Name: C Mikilitus

Location Name: SCH-TW-18B **Well Diameter: 2 in** **Screen Length: 10 ft** **Top of Screen: 28 ft** **Total Depth: 38 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 36 ft** **Estimated Total Volume Pumped: 156660 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1400 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 3	
5/26/2023 9:11 AM	00:00	7.14 pH	20.49 °C	1,299.7 µS/cm	1.88 mg/L	1,000.00 NTU	81.3 mV	30.88 ft	1,400.0 ml/min
5/26/2023 9:21 AM	10:00	7.12 pH	20.46 °C	1,199.4 µS/cm	2.43 mg/L	19.20 NTU	54.7 mV	30.92 ft	1,400.0 ml/min
5/26/2023 9:31 AM	20:00	7.12 pH	20.34 °C	1,154.3 µS/cm	2.66 mg/L	812.00 NTU	52.5 mV	30.92 ft	1,400.0 ml/min
5/26/2023 9:41 AM	30:00	7.12 pH	20.32 °C	1,141.4 µS/cm	2.65 mg/L	104.00 NTU	51.6 mV	30.90 ft	1,400.0 ml/min
5/26/2023 9:51 AM	40:00	7.11 pH	20.34 °C	1,110.6 µS/cm	2.75 mg/L	30.00 NTU	51.8 mV	31.10 ft	1,400.0 ml/min
5/26/2023 10:01 AM	50:00	7.11 pH	20.43 °C	1,107.3 µS/cm	2.78 mg/L	12.90 NTU	51.2 mV	30.89 ft	1,400.0 ml/min
5/26/2023 10:11 AM	01:00:00	7.11 pH	20.49 °C	1,099.4 µS/cm	2.83 mg/L	8.87 NTU	50.7 mV	30.91 ft	1,400.0 ml/min
5/26/2023 10:21 AM	01:10:00	7.11 pH	20.50 °C	1,090.0 µS/cm	2.82 mg/L	6.79 NTU	50.1 mV	30.83 ft	1,400.0 ml/min
5/26/2023 10:31 AM	01:20:00	7.11 pH	20.56 °C	1,072.2 µS/cm	2.89 mg/L	5.34 NTU	50.3 mV	30.85 ft	1,400.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/23/2023 10:54:09 AM
Project: Schemer temp well development (2)
Operator Name: C Mikilitus

Location Name: SCH-TW-18C **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 48 ft** **Total Depth: 53 ft** **Initial Depth to Water: 36.59 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 52 ft** **Estimated Total Volume Pumped: 328416.656 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1400 ml/min** **Final Draw Down: 1.62 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 3	
5/23/2023 10:54 AM	00:00	5.93 pH	19.88 °C	1,581.7 µS/cm	1.06 mg/L	1,000.00 NTU	46.2 mV	37.76 ft	1,400.0 ml/min
5/23/2023 11:04 AM	10:00	5.91 pH	19.89 °C	1,653.8 µS/cm	1.02 mg/L	294.00 NTU	48.9 mV	38.09 ft	1,400.0 ml/min
5/23/2023 11:14 AM	20:00	5.89 pH	19.90 °C	1,643.0 µS/cm	0.98 mg/L	522.00 NTU	45.9 mV	37.98 ft	1,400.0 ml/min
5/23/2023 11:24 AM	30:00	5.87 pH	19.88 °C	1,663.7 µS/cm	1.01 mg/L	1,000.00 NTU	66.4 mV	38.20 ft	1,400.0 ml/min
5/23/2023 11:34 AM	40:00	5.84 pH	19.89 °C	1,658.7 µS/cm	1.01 mg/L	435.00 NTU	45.7 mV	37.85 ft	1,400.0 ml/min
5/23/2023 11:44 AM	50:00	5.85 pH	19.91 °C	1,640.7 µS/cm	1.01 mg/L	961.00 NTU	46.9 mV	38.12 ft	1,400.0 ml/min
5/23/2023 11:54 AM	01:00:00	5.85 pH	19.95 °C	1,649.2 µS/cm	0.98 mg/L	306.00 NTU	45.4 mV	38.20 ft	1,400.0 ml/min
5/23/2023 12:04 PM	01:10:00	5.85 pH	19.94 °C	1,637.0 µS/cm	1.11 mg/L	223.00 NTU	53.6 mV	38.27 ft	1,400.0 ml/min
5/23/2023 12:14 PM	01:20:00	5.84 pH	19.94 °C	1,664.9 µS/cm	1.09 mg/L	115.00 NTU	82.6 mV	38.28 ft	1,400.0 ml/min
5/23/2023 12:24 PM	01:30:00	5.84 pH	19.92 °C	1,648.1 µS/cm	1.04 mg/L	68.90 NTU	54.2 mV	37.93 ft	1,400.0 ml/min
5/23/2023 12:34 PM	01:40:00	5.84 pH	19.94 °C	1,644.9 µS/cm	1.06 mg/L	48.00 NTU	52.5 mV	38.18 ft	1,400.0 ml/min
5/23/2023 12:44 PM	01:50:00	5.83 pH	19.93 °C	1,647.3 µS/cm	1.03 mg/L	474.00 NTU	48.7 mV	38.02 ft	1,400.0 ml/min
5/23/2023 12:54 PM	02:00:00	5.83 pH	19.94 °C	1,664.9 µS/cm	0.97 mg/L		74.5 mV		1,400.0 ml/min
5/23/2023 1:04 PM	02:10:00	5.83 pH	19.92 °C	1,647.8 µS/cm	1.06 mg/L	49.10 NTU	49.8 mV	38.02 ft	1,400.0 ml/min
5/23/2023 1:14 PM	02:20:00	5.83 pH	19.92 °C	1,642.1 µS/cm	1.07 mg/L	115.00 NTU	48.9 mV	38.30 ft	1,400.0 ml/min

5/23/2023 1:24 PM	02:30:00	5.83 pH	19.93 °C	1,636.1 µS/cm	1.00 mg/L	57.30 NTU	48.3 mV	37.94 ft	1,400.0 ml/min
5/23/2023 1:38 PM	02:44:35	5.83 pH	19.96 °C	1,639.0 µS/cm	1.00 mg/L		76.9 mV		1,400.0 ml/min
5/23/2023 1:48 PM	02:54:35	5.83 pH	19.94 °C	1,650.4 µS/cm	1.09 mg/L	26.40 NTU	49.4 mV	38.19 ft	1,400.0 ml/min
5/23/2023 1:58 PM	03:04:35	5.83 pH	19.96 °C	1,646.5 µS/cm	1.07 mg/L	21.60 NTU	46.7 mV	38.22 ft	1,400.0 ml/min
5/23/2023 2:08 PM	03:14:35	5.83 pH	19.94 °C	1,656.9 µS/cm	1.11 mg/L	14.80 NTU	45.5 mV	37.90 ft	1,400.0 ml/min
5/23/2023 2:18 PM	03:24:35	5.83 pH	19.95 °C	1,648.0 µS/cm	1.10 mg/L	13.90 NTU	45.5 mV	37.96 ft	1,400.0 ml/min
5/23/2023 2:28 PM	03:34:35	5.83 pH	19.90 °C	1,638.0 µS/cm	1.06 mg/L	12.20 NTU	45.0 mV	38.07 ft	1,400.0 ml/min
5/23/2023 2:38 PM	03:44:35	5.82 pH	19.93 °C	1,639.2 µS/cm	1.01 mg/L	11.60 NTU	44.6 mV	38.06 ft	1,400.0 ml/min
5/23/2023 2:48 PM	03:54:35	5.82 pH	19.90 °C	1,643.4 µS/cm	1.13 mg/L	9.77 NTU	44.0 mV	38.21 ft	1,400.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/23/2023 10:56:18 AM
Project: Plant Scherer Well Development
Operator Name: TE

Location Name: SCH-TW-18D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40 ft** **Total Depth: 50 ft** **Initial Depth to Water: 43.36 ft**	**Pump Type: Reclaimer** **Tubing Type: HDPE** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 128591.664 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 500 ml/min** **Final Draw Down: 0.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
Light rain, 65°

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/23/2023 10:56 AM	00:00	6.90 pH	20.12 °C	1,251.5 µS/cm	9.52 mg/L	558.00 NTU	83.0 mV	43.55 ft	400.00 ml/min
5/23/2023 11:06 AM	10:00	6.94 pH	20.08 °C	482.89 µS/cm	9.60 mg/L	1,000.00 NTU	74.4 mV	43.55 ft	400.00 ml/min
5/23/2023 11:16 AM	20:00	6.90 pH	20.08 °C	2,007.4 µS/cm	9.37 mg/L	348.00 NTU	65.1 mV	43.60 ft	400.00 ml/min
5/23/2023 11:26 AM	30:00	6.86 pH	20.03 °C	1,599.4 µS/cm	9.53 mg/L	285.00 NTU	82.8 mV	43.70 ft	400.00 ml/min
5/23/2023 11:36 AM	40:00	6.88 pH	20.05 °C	995.57 µS/cm	9.41 mg/L	411.00 NTU	74.1 mV	43.70 ft	400.00 ml/min
5/23/2023 11:46 AM	50:00	6.62 pH	20.09 °C	1,649.6 µS/cm	9.70 mg/L	796.00 NTU	79.7 mV	43.75 ft	500.00 ml/min
5/23/2023 11:56 AM	01:00:00	6.59 pH	20.20 °C	1,960.5 µS/cm	9.63 mg/L	77.60 NTU	83.2 mV	43.75 ft	500.00 ml/min
5/23/2023 12:06 PM	01:10:00	6.39 pH	20.39 °C	1,011.1 µS/cm	9.10 mg/L	1,000.00 NTU	89.7 mV	43.75 ft	500.00 ml/min
5/23/2023 12:16 PM	01:20:00	6.29 pH	20.17 °C	1,948.0 µS/cm	10.02 mg/L	1,000.00 NTU	85.1 mV	43.75 ft	500.00 ml/min
5/23/2023 12:26 PM	01:30:00	6.51 pH	20.21 °C	1,791.2 µS/cm	9.63 mg/L	949.00 NTU	67.7 mV	43.75 ft	500.00 ml/min
5/23/2023 12:36 PM	01:40:00	6.45 pH	20.18 °C	1,945.1 µS/cm	9.67 mg/L	1,000.00 NTU	69.8 mV	43.75 ft	500.00 ml/min
5/23/2023 12:46 PM	01:50:00	6.63 pH	20.12 °C	1,454.0 µS/cm	9.73 mg/L	1,000.00 NTU	67.4 mV	43.85 ft	500.00 ml/min
5/23/2023 12:56 PM	02:00:00	6.62 pH	20.12 °C	1,535.2 µS/cm	9.45 mg/L	262.00 NTU	70.0 mV	43.90 ft	500.00 ml/min

5/23/2023 1:06 PM	02:10:00	6.60 pH	20.08 °C	1,756.6 µS/cm	9.86 mg/L	571.00 NTU	94.7 mV	43.90 ft	500.00 ml/min
5/23/2023 1:16 PM	02:20:00	6.60 pH	20.09 °C	1,961.5 µS/cm	9.76 mg/L	886.00 NTU	103.2 mV	43.90 ft	500.00 ml/min
5/23/2023 1:26 PM	02:30:00	6.56 pH	20.17 °C	1,510.3 µS/cm	9.63 mg/L	1,000.00 NTU	84.4 mV	43.90 ft	500.00 ml/min
5/23/2023 1:41 PM	02:45:19	6.60 pH	20.52 °C	1,477.5 µS/cm	9.19 mg/L	175.00 NTU	95.3 mV	43.90 ft	500.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/25/2023 2:14:24 PM
Project: Schemer temp well development (8)
Operator Name: C Mikilitus

Location Name: SCH-TW-18D **Well Diameter: 2 in** **Screen Length: 10 ft** **Top of Screen: 42.51 ft** **Total Depth: 52.51 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 87700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 400 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 3	
5/25/2023 2:14 PM	00:00	5.91 pH	21.90 °C	1,826.9 µS/cm	2.22 mg/L	1,000.00 NTU	71.4 mV	43.65 ft	400.00 ml/min
5/25/2023 2:24 PM	10:00	5.83 pH	21.54 °C	1,857.4 µS/cm	2.90 mg/L		46.0 mV		400.00 ml/min
5/25/2023 2:34 PM	20:00	5.78 pH	21.60 °C	1,869.9 µS/cm	3.02 mg/L	1,000.00 NTU	49.2 mV	43.72 ft	400.00 ml/min
5/25/2023 2:44 PM	30:00	5.77 pH	21.59 °C	1,881.2 µS/cm	3.18 mg/L	1,000.00 NTU	43.7 mV	43.78 ft	400.00 ml/min
5/25/2023 2:54 PM	40:00	6.46 pH	25.41 °C	1,719.6 µS/cm	5.17 mg/L	1,000.00 NTU	18.4 mV	43.88 ft	400.00 ml/min
5/25/2023 3:04 PM	50:00	5.77 pH	21.09 °C	1,882.9 µS/cm	3.84 mg/L	1,000.00 NTU	52.5 mV	44.25 ft	400.00 ml/min
5/25/2023 3:14 PM	01:00:00	5.70 pH	20.49 °C	1,898.5 µS/cm	2.44 mg/L		53.1 mV		400.00 ml/min
5/25/2023 3:24 PM	01:10:00	5.67 pH	20.51 °C	1,886.9 µS/cm	2.23 mg/L		56.2 mV		400.00 ml/min
5/25/2023 3:33 PM	01:19:15	5.67 pH	20.48 °C	1,881.0 µS/cm	2.50 mg/L	380.00 NTU	64.1 mV	45.05 ft	400.00 ml/min
5/25/2023 3:43 PM	01:29:15	5.64 pH	20.48 °C	1,905.2 µS/cm	2.33 mg/L	426.00 NTU	55.7 mV	45.15 ft	400.00 ml/min
5/25/2023 3:53 PM	01:39:15	5.65 pH	20.50 °C	1,913.5 µS/cm	2.43 mg/L	328.00 NTU	55.1 mV	45.12 ft	400.00 ml/min
5/25/2023 4:03 PM	01:49:15	5.98 pH	24.54 °C	1,939.1 µS/cm	9.66 mg/L	1,000.00 NTU	62.0 mV	44.20 ft	400.00 ml/min
5/25/2023 4:13 PM	01:59:15	5.65 pH	20.74 °C	1,925.4 µS/cm	3.42 mg/L		59.3 mV		400.00 ml/min
5/25/2023 4:23 PM	02:09:15	5.65 pH	20.65 °C	1,906.4 µS/cm	2.84 mg/L		57.9 mV		400.00 ml/min
5/25/2023 4:33 PM	02:19:15	5.65 pH	20.69 °C	1,915.4 µS/cm	2.73 mg/L		57.7 mV		400.00 ml/min
5/25/2023 4:43 PM	02:29:15	6.04 pH	20.32 °C	1,733.2 µS/cm	11.24 mg/L		65.3 mV		400.00 ml/min

5/25/2023 4:53 PM	02:39:15	5.69 pH	21.01 °C	1,913.7 µS/cm	3.54 mg/L		58.5 mV		400.00 ml/min
5/25/2023 5:03 PM	02:49:15	5.71 pH	20.58 °C	1,898.7 µS/cm	3.04 mg/L	1,000.00 NTU	56.2 mV	44.68 ft	400.00 ml/min
5/25/2023 5:13 PM	02:59:15	5.63 pH	20.44 °C	1,926.1 µS/cm	3.44 mg/L	1,000.00 NTU	57.9 mV	44.98 ft	400.00 ml/min
5/25/2023 5:23 PM	03:09:15	5.96 pH	20.42 °C	1,339.2 µS/cm	11.74 mg/L		56.2 mV		400.00 ml/min
5/25/2023 5:33 PM	03:19:15	5.66 pH	20.50 °C	1,919.0 µS/cm	3.03 mg/L		55.9 mV		400.00 ml/min
5/25/2023 5:43 PM	03:29:15	5.66 pH	20.83 °C	1,903.8 µS/cm	3.03 mg/L	57.90 NTU	55.8 mV	44.45 ft	400.00 ml/min
5/25/2023 5:53 PM	03:39:15	5.67 pH	20.89 °C	1,904.1 µS/cm	2.74 mg/L	25.50 NTU	54.7 mV	44.13 ft	400.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/22/2023 1:34:44 PM
Project: Plant Scherer (8)
Operator Name: TE

Location Name: SCH-TW-20A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft** **Initial Depth to Water: 12.18 ft**	**Pump Type: Reclaimer** **Tubing Type: LDPE** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 208333.328 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 800 ml/min** **Final Draw Down: 0.97 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
69°, overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10	+/- 5	+/- 10	+/- 5	
5/22/2023 1:34 PM	00:00	6.04 pH	20.92 °C	431.60 µS/cm	1.97 mg/L	13.05 NTU	83.8 mV	12.18 ft	800.00 ml/min
5/22/2023 1:35 PM	00:25	6.02 pH	20.92 °C	431.61 µS/cm	1.89 mg/L	1,000.00 NTU	88.5 mV	13.05 ft	800.00 ml/min
5/22/2023 1:45 PM	10:25	6.01 pH	21.01 °C	425.82 µS/cm	1.28 mg/L	154.00 NTU	70.7 mV	13.08 ft	800.00 ml/min
5/22/2023 1:55 PM	20:25	5.99 pH	21.01 °C	424.51 µS/cm	0.97 mg/L	39.80 NTU	65.7 mV	13.12 ft	800.00 ml/min
5/22/2023 2:05 PM	30:25	6.00 pH	21.01 °C	423.61 µS/cm	0.76 mg/L	1,000.00 NTU	58.7 mV	13.20 ft	800.00 ml/min
5/22/2023 2:15 PM	40:25	6.01 pH	20.99 °C	424.13 µS/cm	0.68 mg/L	58.20 NTU	44.7 mV	13.10 ft	800.00 ml/min
5/22/2023 2:25 PM	50:25	6.00 pH	20.97 °C	424.37 µS/cm	0.59 mg/L	26.70 NTU	43.1 mV	13.15 ft	800.00 ml/min
5/22/2023 2:35 PM	01:00:25	6.01 pH	21.01 °C	425.57 µS/cm	0.51 mg/L	442.00 NTU	27.4 mV	13.11 ft	800.00 ml/min
5/22/2023 2:45 PM	01:10:25	6.00 pH	21.03 °C	424.31 µS/cm	0.54 mg/L	47.60 NTU	29.5 mV	13.15 ft	800.00 ml/min
5/22/2023 2:55 PM	01:20:25	6.01 pH	21.05 °C	424.36 µS/cm	0.50 mg/L	319.00 NTU	25.2 mV	13.11 ft	800.00 ml/min
5/22/2023 3:05 PM	01:30:25	6.00 pH	21.02 °C	424.29 µS/cm	0.54 mg/L	29.30 NTU	26.2 mV	13.11 ft	800.00 ml/min
5/22/2023 3:15 PM	01:40:25	6.01 pH	20.97 °C	426.45 µS/cm	0.43 mg/L	1,000.00 NTU	24.3 mV	13.11 ft	800.00 ml/min
5/22/2023 3:25 PM	01:50:25	6.01 pH	20.97 °C	426.04 µS/cm	0.53 mg/L	48.30 NTU	21.9 mV	13.11 ft	800.00 ml/min

5/22/2023 3:35 PM	02:00:25	6.01 pH	20.97 °C	424.58 µS/cm	0.52 mg/L	19.00 NTU	25.7 mV	13.11 ft	800.00 ml/min
5/22/2023 3:45 PM	02:10:25	6.02 pH	20.98 °C	426.00 µS/cm	0.41 mg/L	1,000.00 NTU	22.5 mV	13.11 ft	800.00 ml/min
5/22/2023 3:55 PM	02:20:25	6.00 pH	21.01 °C	424.27 µS/cm	0.53 mg/L	47.50 NTU	22.3 mV	13.11 ft	800.00 ml/min
5/22/2023 4:05 PM	02:30:25	6.01 pH	21.01 °C	424.16 µS/cm	0.55 mg/L	109.00 NTU	24.3 mV	13.20 ft	800.00 ml/min
5/22/2023 4:15 PM	02:40:25	6.00 pH	21.02 °C	424.21 µS/cm	0.60 mg/L	30.50 NTU	24.3 mV	13.15 ft	800.00 ml/min
5/22/2023 4:25 PM	02:50:25	6.00 pH	21.03 °C	423.78 µS/cm	0.62 mg/L	61.30 NTU	24.7 mV	13.15 ft	800.00 ml/min
5/22/2023 4:35 PM	03:00:25	6.01 pH	21.04 °C	424.05 µS/cm	0.74 mg/L	24.80 NTU	26.8 mV	13.15 ft	800.00 ml/min
5/22/2023 4:45 PM	03:10:25	6.00 pH	21.06 °C	425.43 µS/cm	0.46 mg/L	1,000.00 NTU	26.5 mV	13.15 ft	800.00 ml/min
5/22/2023 4:55 PM	03:20:25	6.01 pH	21.10 °C	424.46 µS/cm	0.71 mg/L	701.00 NTU	30.1 mV	13.10 ft	800.00 ml/min
5/22/2023 5:05 PM	03:30:25	6.00 pH	21.06 °C	424.96 µS/cm	0.66 mg/L	184.00 NTU	29.6 mV	13.15 ft	800.00 ml/min
5/22/2023 5:15 PM	03:40:25	6.01 pH	21.07 °C	424.40 µS/cm	0.67 mg/L	73.30 NTU	29.4 mV	13.15 ft	800.00 ml/min
5/22/2023 5:25 PM	03:50:25	6.02 pH	21.07 °C	426.32 µS/cm	0.45 mg/L	1,000.00 NTU	28.9 mV	13.15 ft	800.00 ml/min
5/22/2023 5:35 PM	04:00:25	6.01 pH	21.06 °C	424.45 µS/cm	0.71 mg/L	1,000.00 NTU	26.1 mV	13.15 ft	800.00 ml/min
5/22/2023 5:45 PM	04:10:25	6.01 pH	20.96 °C	424.36 µS/cm	0.67 mg/L	354.00 NTU	26.1 mV	13.15 ft	800.00 ml/min
5/22/2023 5:55 PM	04:20:25	6.00 pH	21.10 °C	424.16 µS/cm	0.65 mg/L	79.70 NTU	28.8 mV	13.15 ft	800.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/25/2023 10:00:06 AM
Project: Schemer temp well development (7)
Operator Name: C Mikilitus

Location Name: SCH-TW-20A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 275626.656 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1600 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 3	
5/25/2023 10:00 AM	00:00	6.11 pH	21.01 °C	439.08 µS/cm	1.19 mg/L	1,000.00 NTU	66.6 mV	13.75 ft	1,600.0 ml/min
5/25/2023 10:10 AM	10:00	6.11 pH	21.14 °C	426.72 µS/cm	1.21 mg/L	545.00 NTU	50.2 mV	13.80 ft	1,600.0 ml/min
5/25/2023 10:20 AM	20:00	6.11 pH	21.23 °C	428.02 µS/cm	1.21 mg/L	1,000.00 NTU	42.3 mV	14.72 ft	1,600.0 ml/min
5/25/2023 10:30 AM	30:00	6.11 pH	21.29 °C	426.48 µS/cm	1.00 mg/L	1,000.00 NTU	35.9 mV	14.22 ft	1,600.0 ml/min
5/25/2023 10:40 AM	40:00	6.37 pH	21.36 °C	294.33 µS/cm	4.90 mg/L	1,000.00 NTU	39.7 mV	14.65 ft	1,600.0 ml/min
5/25/2023 10:50 AM	50:00	6.11 pH	21.34 °C	425.90 µS/cm	1.15 mg/L	1,000.00 NTU	29.7 mV	13.74 ft	1,600.0 ml/min
5/25/2023 11:00 AM	01:00:00	6.11 pH	21.50 °C	428.31 µS/cm	1.19 mg/L	332.00 NTU	28.3 mV	13.68 ft	1,600.0 ml/min
5/25/2023 11:10 AM	01:10:00	6.11 pH	21.54 °C	425.55 µS/cm	1.02 mg/L	1,000.00 NTU	27.6 mV	13.60 ft	1,600.0 ml/min
5/25/2023 11:20 AM	01:20:00	6.12 pH	21.59 °C	425.64 µS/cm	1.18 mg/L	448.00 NTU	23.9 mV	13.74 ft	1,600.0 ml/min
5/25/2023 11:30 AM	01:30:00	6.11 pH	21.66 °C	425.17 µS/cm	1.17 mg/L	131.00 NTU	23.7 mV	13.99 ft	1,600.0 ml/min
5/25/2023 11:40 AM	01:40:00	6.12 pH	21.72 °C	424.10 µS/cm	1.24 mg/L	38.50 NTU	23.8 mV	13.60 ft	1,600.0 ml/min
5/25/2023 12:22 PM	02:22:16	6.11 pH	21.73 °C	432.72 µS/cm	1.18 mg/L	16.70 NTU	27.0 mV	13.98 ft	1,600.0 ml/min
5/25/2023 12:32 PM	02:32:16	6.11 pH	21.81 °C	424.57 µS/cm	1.23 mg/L	11.50 NTU	24.6 mV	13.97 ft	1,600.0 ml/min
5/25/2023 12:42 PM	02:42:16	6.12 pH	21.81 °C	426.57 µS/cm	1.21 mg/L	9.06 NTU	24.8 mV	13.96 ft	1,600.0 ml/min
5/25/2023 12:52 PM	02:52:16	6.12 pH	21.83 °C	425.10 µS/cm	1.21 mg/L	8.76 NTU	24.8 mV	13.68 ft	1,600.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/24/2023 2:36:55 PM
Project: Schemer temp well development (6)
Operator Name: C Mikilitus

Location Name: SCH-TW-20B **Well Diameter: 2 in** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 304000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1600 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 3	
5/24/2023 2:36 PM	00:00	5.98 pH	21.26 °C	246.72 µS/cm	0.52 mg/L	1,000.00 NTU	106.5 mV	8.38 ft	1,600.0 ml/min
5/24/2023 2:46 PM	10:00	5.98 pH	21.45 °C	241.89 µS/cm	0.89 mg/L	416.00 NTU	65.9 mV	8.45 ft	1,600.0 ml/min
5/24/2023 2:56 PM	20:00	5.98 pH	21.43 °C	244.31 µS/cm	0.76 mg/L	1,000.00 NTU	45.6 mV	8.36 ft	1,600.0 ml/min
5/24/2023 3:06 PM	30:00	5.97 pH	21.45 °C	247.08 µS/cm	0.83 mg/L	822.00 NTU	39.7 mV	8.43 ft	1,600.0 ml/min
5/24/2023 3:16 PM	40:00	5.97 pH	21.46 °C	251.49 µS/cm	0.84 mg/L	572.00 NTU	41.0 mV	8.38 ft	1,600.0 ml/min
5/24/2023 3:26 PM	50:00	5.97 pH	21.50 °C	254.10 µS/cm	0.92 mg/L	142.00 NTU	33.9 mV	8.33 ft	1,600.0 ml/min
5/24/2023 3:36 PM	01:00:00	5.95 pH	21.47 °C	255.36 µS/cm	0.73 mg/L	722.00 NTU	27.5 mV	8.15 ft	1,600.0 ml/min
5/24/2023 3:46 PM	01:10:00	5.95 pH	21.47 °C	256.85 µS/cm	0.85 mg/L	205.00 NTU	22.3 mV	8.42 ft	1,600.0 ml/min
5/24/2023 3:56 PM	01:20:00	5.95 pH	21.45 °C	258.03 µS/cm	0.80 mg/L	71.80 NTU	19.0 mV	8.22 ft	1,600.0 ml/min
5/24/2023 4:06 PM	01:30:00	5.95 pH	21.46 °C	259.09 µS/cm	0.82 mg/L	44.70 NTU	15.8 mV	8.38 ft	1,600.0 ml/min
5/24/2023 4:16 PM	01:40:00	5.95 pH	21.49 °C	260.31 µS/cm	0.78 mg/L	37.20 NTU	15.3 mV	8.38 ft	1,600.0 ml/min
5/24/2023 4:26 PM	01:50:00	5.93 pH	21.54 °C	264.54 µS/cm	0.92 mg/L	1,000.00 NTU	17.7 mV	8.65 ft	1,600.0 ml/min
5/24/2023 4:36 PM	02:00:00	5.93 pH	21.60 °C	261.32 µS/cm	0.90 mg/L	407.00 NTU	13.3 mV	8.41 ft	1,600.0 ml/min
5/24/2023 4:46 PM	02:10:00	5.94 pH	21.57 °C	261.75 µS/cm	0.98 mg/L	224.00 NTU	14.1 mV	8.57 ft	1,600.0 ml/min
5/24/2023 4:56 PM	02:20:00	5.95 pH	21.59 °C	264.91 µS/cm	0.86 mg/L	1,000.00 NTU	21.2 mV	8.61 ft	1,600.0 ml/min
5/24/2023 5:06 PM	02:30:00	5.94 pH	21.67 °C	263.86 µS/cm	0.70 mg/L	220.00 NTU	18.6 mV	8.29 ft	1,600.0 ml/min

5/24/2023 5:16 PM	02:40:00	5.94 pH	21.68 °C	264.06 µS/cm	0.96 mg/L	96.50 NTU	20.3 mV	8.59 ft	1,600.0 ml/min
5/24/2023 5:26 PM	02:50:00	5.94 pH	21.67 °C	263.61 µS/cm	1.15 mg/L	56.20 NTU	19.1 mV	8.45 ft	1,600.0 ml/min
5/24/2023 5:36 PM	03:00:00	5.94 pH	21.65 °C	262.99 µS/cm	1.02 mg/L	40.40 NTU	21.5 mV	8.41 ft	1,600.0 ml/min
5/24/2023 5:46 PM	03:10:00	5.94 pH	21.72 °C	263.91 µS/cm	1.07 mg/L	18.60 NTU	19.8 mV	8.53 ft	1,600.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/22/2023 3:25:29 PM
Project: Schemer temp well development
Operator Name: C Mikilitus

Location Name: SCH-TW-20C **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38 ft** **Total Depth: 48 ft** **Initial Depth to Water: 11.66 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 192000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1600 ml/min** **Final Draw Down: 2.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/22/2023 3:25 PM	00:00	5.74 pH	20.94 °C	285.92 µS/cm	0.94 mg/L	1,000.00 NTU	25.5 mV	13.25 ft	1,600.0 ml/min
5/22/2023 3:35 PM	10:00	5.71 pH	21.05 °C	286.08 µS/cm	0.91 mg/L	141.00 NTU	16.2 mV	13.53 ft	1,600.0 ml/min
5/22/2023 3:45 PM	20:00	5.72 pH	21.10 °C	287.47 µS/cm	0.88 mg/L	152.00 NTU	7.4 mV	13.45 ft	1,600.0 ml/min
5/22/2023 3:55 PM	30:00	5.71 pH	21.14 °C	287.85 µS/cm	0.75 mg/L	76.50 NTU	5.0 mV	13.38 ft	1,600.0 ml/min
5/22/2023 4:05 PM	40:00	5.71 pH	21.16 °C	288.54 µS/cm	0.79 mg/L	102.00 NTU	5.0 mV	13.42 ft	1,600.0 ml/min
5/22/2023 4:15 PM	50:00	5.70 pH	21.18 °C	288.05 µS/cm	0.74 mg/L	36.30 NTU	4.4 mV	13.55 ft	1,600.0 ml/min
5/22/2023 4:25 PM	01:00:00	5.69 pH	21.18 °C	289.24 µS/cm	0.68 mg/L	656.00 NTU	2.6 mV	13.62 ft	1,600.0 ml/min
5/22/2023 4:35 PM	01:10:00	5.70 pH	21.18 °C	288.00 µS/cm	0.73 mg/L		1.7 mV	13.63 ft	1,600.0 ml/min
5/22/2023 4:45 PM	01:20:00	5.70 pH	21.19 °C	288.53 µS/cm	0.68 mg/L	56.10 NTU	0.9 mV	13.67 ft	1,600.0 ml/min
5/22/2023 4:55 PM	01:30:00	5.69 pH	21.19 °C	289.14 µS/cm	0.71 mg/L	110.00 NTU	-1.1 mV	13.73 ft	1,600.0 ml/min
5/22/2023 5:05 PM	01:40:00	5.69 pH	21.20 °C	289.14 µS/cm	0.67 mg/L	32.10 NTU	-2.2 mV	13.64 ft	1,600.0 ml/min
5/22/2023 5:15 PM	01:50:00	5.69 pH	21.21 °C	290.20 µS/cm	0.86 mg/L	1,000.00 NTU	0.3 mV	13.70 ft	1,600.0 ml/min
5/22/2023 5:25 PM	02:00:00	5.69 pH	21.21 °C	289.56 µS/cm	0.89 mg/L	300.00 NTU	-2.3 mV	13.92 ft	1,600.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/22/2023 2:24:42 PM
Project: Scherer AP-1 temp well development
Operator Name: T Johnson

Location Name: SCH-TW-20D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 41 ft** **Total Depth: 46 ft** **Initial Depth to Water: 9 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 13 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1600 ml/min** **Final Draw Down: 15.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/22/2023 2:24 PM	00:00	5.46 pH	20.87 °C	324.46 µS/cm	1.24 mg/L	300.00 NTU	11.8 mV	20.24 ft	1,600.0 ml/min
5/22/2023 2:34 PM	09:39	5.36 pH	21.02 °C	323.29 µS/cm	0.89 mg/L	300.00 NTU	20.3 mV	20.24 ft	1,600.0 ml/min
5/22/2023 2:44 PM	19:39	5.32 pH	21.11 °C	319.23 µS/cm	0.79 mg/L	165.00 NTU	30.2 mV	20.98 ft	1,600.0 ml/min
5/22/2023 2:54 PM	29:39	5.33 pH	21.13 °C	317.28 µS/cm	0.81 mg/L	1,000.00 NTU	31.5 mV	21.41 ft	1,600.0 ml/min
5/22/2023 3:04 PM	39:39	5.29 pH	21.20 °C	315.99 µS/cm	0.75 mg/L	305.00 NTU	37.6 mV	21.75 ft	1,600.0 ml/min
5/22/2023 3:14 PM	49:39	5.28 pH	21.20 °C	314.14 µS/cm	0.72 mg/L	181.00 NTU	38.9 mV	21.81 ft	1,600.0 ml/min
5/22/2023 3:19 PM	54:50	5.29 pH	21.20 °C	316.94 µS/cm	0.80 mg/L		40.4 mV	21.81 ft	1,600.0 ml/min
5/22/2023 3:24 PM	59:39	5.28 pH	21.20 °C	316.58 µS/cm	0.68 mg/L	124.00 NTU	41.2 mV	21.86 ft	1,600.0 ml/min
5/22/2023 3:34 PM	01:09:39	5.28 pH	21.20 °C	313.83 µS/cm	0.72 mg/L	114.00 NTU	42.1 mV	21.86 ft	1,600.0 ml/min
5/22/2023 3:44 PM	01:19:39	5.28 pH	21.21 °C	314.62 µS/cm	0.80 mg/L	1,000.00 NTU	43.3 mV	22.08 ft	1,600.0 ml/min
5/22/2023 3:54 PM	01:29:39	5.26 pH	21.23 °C	312.69 µS/cm	0.76 mg/L	1,000.00 NTU	45.9 mV	22.15 ft	1,600.0 ml/min
5/22/2023 4:04 PM	01:39:39	5.27 pH	21.24 °C	313.04 µS/cm	0.75 mg/L	285.00 NTU	46.3 mV	22.16 ft	1,600.0 ml/min
5/22/2023 4:14 PM	01:49:39	5.28 pH	21.25 °C	312.00 µS/cm	0.76 mg/L	131.00 NTU	44.8 mV	22.09 ft	1,600.0 ml/min
5/22/2023 4:24 PM	01:59:39	5.27 pH	21.27 °C	311.71 µS/cm	0.71 mg/L	109.00 NTU	45.1 mV	22.08 ft	1,600.0 ml/min
5/22/2023 4:34 PM	02:09:39	5.27 pH	21.29 °C	312.26 µS/cm	0.73 mg/L	162.00 NTU	44.5 mV	22.15 ft	1,600.0 ml/min

5/22/2023 4:44 PM	02:19:39	5.27 pH	21.29 °C	311.27 µS/cm	0.77 mg/L	97.70 NTU	44.8 mV	22.04 ft	1,600.0 ml/min
5/22/2023 4:54 PM	02:29:39	5.26 pH	21.28 °C	312.65 µS/cm	0.83 mg/L	369.00 NTU	53.4 mV	23.31 ft	1,600.0 ml/min
5/22/2023 5:04 PM	02:39:39	5.32 pH	21.26 °C	315.54 µS/cm	0.93 mg/L	235.00 NTU	55.9 mV	23.73 ft	1,600.0 ml/min
5/22/2023 5:14 PM	02:49:39	5.25 pH	21.29 °C	311.28 µS/cm	0.80 mg/L	86.30 NTU	48.8 mV	24.14 ft	1,600.0 ml/min
5/22/2023 5:24 PM	02:59:39	5.24 pH	21.29 °C	313.42 µS/cm	0.91 mg/L	32.00 NTU	52.5 mV	24.04 ft	1,600.0 ml/min

Samples

Sample ID:	Description:

Appendix A
Field Data Forms - Sampling Forms

Low-Flow Test Report:

Test Date / Time: 5/31/2023 8:56:26 AM
Project: Scherer temp well devel sampling
Operator Name: T Johnson

Location Name: SCH-TW-15A-D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 48.5 ft** **Total Depth: 53.5 ft** **Initial Depth to Water: 23.43 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 50.5 ft** **Estimated Total Volume Pumped: 5880 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 168 ml/min** **Final Draw Down: 1.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
5/31/2023 8:56 AM	00:00	5.60 pH	18.91 °C	347.41 µS/cm	0.58 mg/L	5.45 NTU	117.6 mV	24.45 ft	168.00 ml/min
5/31/2023 9:01 AM	05:00	5.55 pH	18.44 °C	349.02 µS/cm	0.23 mg/L	5.45 NTU	84.2 mV	24.45 ft	168.00 ml/min
5/31/2023 9:06 AM	10:00	5.70 pH	19.34 °C	0.95 µS/cm	9.09 mg/L	5.62 NTU	57.7 mV	24.12 ft	168.00 ml/min
5/31/2023 9:11 AM	15:00	5.56 pH	18.62 °C	348.07 µS/cm	0.19 mg/L	3.85 NTU	56.5 mV	24.43 ft	168.00 ml/min
5/31/2023 9:16 AM	20:00	5.56 pH	18.57 °C	348.62 µS/cm	0.13 mg/L	3.80 NTU	38.3 mV	24.60 ft	168.00 ml/min
5/31/2023 9:21 AM	25:00	5.56 pH	18.48 °C	349.71 µS/cm	0.10 mg/L	4.27 NTU	24.6 mV	24.66 ft	168.00 ml/min
5/31/2023 9:26 AM	30:00	5.56 pH	18.54 °C	349.14 µS/cm	0.08 mg/L	3.68 NTU	17.2 mV	24.69 ft	168.00 ml/min
5/31/2023 9:31 AM	35:00	5.56 pH	18.53 °C	348.17 µS/cm	0.08 mg/L	3.82 NTU	13.3 mV	24.71 ft	168.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-15A-D	Sulfide, TDS, Chloride, fluoride, sulfate, metals, dissolved cobalt, alkalinity

Low-Flow Test Report:

Test Date / Time: 5/31/2023 10:52:13 AM
Project: Scherer temp well devel sampling
Operator Name: T Johnson

Location Name: SCH-TW-15A-S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 30 ft** **Total Depth: 35 ft** **Initial Depth to Water: 24.6 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 32 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 176 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
5/31/2023 10:52 AM	00:00	4.32 pH	19.25 °C	539.09 µS/cm	0.71 mg/L	15.00 NTU	312.3 mV	24.61 ft	176.00 ml/min
5/31/2023 10:57 AM	05:00	4.31 pH	19.27 °C	541.75 µS/cm	0.67 mg/L	11.40 NTU	420.4 mV	24.61 ft	176.00 ml/min
5/31/2023 11:02 AM	10:00	4.31 pH	19.64 °C	539.71 µS/cm	0.61 mg/L	6.11 NTU	435.6 mV	24.61 ft	176.00 ml/min
5/31/2023 11:07 AM	15:00	4.31 pH	19.77 °C	540.40 µS/cm	0.62 mg/L	5.44 NTU	462.7 mV	24.62 ft	176.00 ml/min
5/31/2023 11:12 AM	20:00	4.32 pH	20.10 °C	539.27 µS/cm	0.60 mg/L	4.61 NTU	470.8 mV	24.60 ft	176.00 ml/min
5/31/2023 11:17 AM	25:00	4.32 pH	20.25 °C	539.71 µS/cm	0.59 mg/L	3.28 NTU	478.3 mV	24.60 ft	176.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-15A-S	Sulfide, TDS, Chloride, Fluoride, sulfate, metals, dissolved cobalt, alkalinity

Low-Flow Test Report:

Test Date / Time: 5/31/2023 8:40:04 AM
Project: Plant Scherer
Operator Name: M. Mann

Location Name: SCH-TW-15B **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft** **Initial Depth to Water: 24.03 ft**	**Pump Type: Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 49250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
5/31/2023 8:40 AM	00:00	6.61 pH	21.67 °C	0.36 mS/cm	6.33 mg/L	57.80 NTU	134.7 mV	24.03 ft	140.00 ml/min
5/31/2023 8:45 AM	05:00	6.04 pH	19.31 °C	0.36 mS/cm	1.18 mg/L	36.80 NTU	84.2 mV	24.38 ft	140.00 ml/min
5/31/2023 8:50 AM	10:00	5.98 pH	19.19 °C	0.37 mS/cm	0.49 mg/L		87.4 mV	24.20 ft	0.00 ml/min
5/31/2023 8:55 AM	15:00	5.97 pH	19.33 °C	0.37 mS/cm	0.53 mg/L	40.90 NTU	65.2 mV	24.12 ft	140.00 ml/min
5/31/2023 9:00 AM	20:00	5.95 pH	19.19 °C	0.37 mS/cm	0.45 mg/L	40.40 NTU	79.7 mV	24.38 ft	140.00 ml/min
5/31/2023 9:05 AM	25:00	5.93 pH	19.08 °C	0.37 mS/cm	0.32 mg/L	45.20 NTU	79.4 mV	24.38 ft	140.00 ml/min
5/31/2023 9:10 AM	30:00	5.92 pH	19.12 °C	0.36 mS/cm	0.27 mg/L	51.00 NTU	64.2 mV	24.38 ft	100.00 ml/min
5/31/2023 9:15 AM	35:00	5.90 pH	19.28 °C	0.37 mS/cm	0.28 mg/L	55.10 NTU	75.4 mV	24.38 ft	100.00 ml/min
5/31/2023 9:20 AM	40:00	5.95 pH	19.77 °C	0.37 mS/cm	1.85 mg/L	98.80 NTU	74.1 mV	24.26 ft	100.00 ml/min
5/31/2023 9:25 AM	45:00	5.92 pH	19.45 °C	0.36 mS/cm	0.90 mg/L	72.10 NTU	72.7 mV	24.48 ft	170.00 ml/min
5/31/2023 9:30 AM	50:00	5.90 pH	19.23 °C	0.36 mS/cm	0.74 mg/L	69.90 NTU	86.9 mV	24.48 ft	170.00 ml/min
5/31/2023 9:35 AM	55:00	5.88 pH	19.19 °C	0.36 mS/cm	0.45 mg/L	60.70 NTU	87.4 mV	24.45 ft	170.00 ml/min
5/31/2023 9:40 AM	01:00:00	5.86 pH	19.28 °C	0.36 mS/cm	0.33 mg/L	48.80 NTU	86.9 mV	24.46 ft	170.00 ml/min

5/31/2023 9:45 AM	01:05:00	5.85 pH	19.20 °C	0.36 mS/cm	0.27 mg/L	53.80 NTU	67.9 mV	24.46 ft	170.00 ml/min
5/31/2023 9:50 AM	01:10:00	5.83 pH	19.19 °C	0.36 mS/cm	0.24 mg/L	51.40 NTU	81.0 mV	24.47 ft	170.00 ml/min
5/31/2023 9:55 AM	01:15:00	5.82 pH	19.32 °C	0.36 mS/cm	0.27 mg/L	53.70 NTU	84.5 mV	24.47 ft	170.00 ml/min
5/31/2023 10:00 AM	01:20:00	5.81 pH	19.54 °C	0.36 mS/cm	0.27 mg/L	68.60 NTU	86.0 mV	24.84 ft	360.00 ml/min
5/31/2023 10:05 AM	01:25:00	5.84 pH	18.66 °C	0.36 mS/cm	1.08 mg/L	44.50 NTU	73.8 mV	25.06 ft	360.00 ml/min
5/31/2023 10:10 AM	01:30:00	5.79 pH	18.56 °C	0.36 mS/cm	0.38 mg/L	44.40 NTU	89.4 mV	24.98 ft	360.00 ml/min
5/31/2023 10:15 AM	01:35:00	5.75 pH	18.47 °C	0.36 mS/cm	0.25 mg/L	33.90 NTU	90.7 mV	25.02 ft	360.00 ml/min
5/31/2023 10:20 AM	01:40:00	5.74 pH	18.45 °C	0.36 mS/cm	0.24 mg/L	25.10 NTU	73.6 mV	24.94 ft	360.00 ml/min
5/31/2023 10:25 AM	01:45:00	5.73 pH	18.45 °C	0.36 mS/cm	0.27 mg/L	20.90 NTU	90.3 mV	24.98 ft	175.00 ml/min
5/31/2023 10:30 AM	01:50:00	5.72 pH	18.81 °C	0.36 mS/cm	0.25 mg/L	17.10 NTU	74.4 mV	24.98 ft	175.00 ml/min
5/31/2023 10:35 AM	01:55:00	5.72 pH	18.61 °C	0.36 mS/cm	0.23 mg/L	15.70 NTU	72.3 mV	24.74 ft	175.00 ml/min
5/31/2023 10:40 AM	02:00:00	5.73 pH	18.39 °C	0.36 mS/cm	0.33 mg/L	17.00 NTU	88.3 mV	24.65 ft	150.00 ml/min
5/31/2023 10:45 AM	02:05:00	5.71 pH	18.70 °C	0.36 mS/cm	0.29 mg/L	14.40 NTU	74.1 mV	24.59 ft	100.00 ml/min
5/31/2023 10:50 AM	02:10:00	5.70 pH	19.51 °C	0.37 mS/cm	0.31 mg/L	14.80 NTU	87.7 mV	24.30 ft	100.00 ml/min
5/31/2023 10:55 AM	02:15:00	5.71 pH	20.39 °C	0.36 mS/cm	0.28 mg/L	14.40 NTU	89.6 mV	24.27 ft	100.00 ml/min
5/31/2023 11:00 AM	02:20:00	5.70 pH	21.59 °C	0.36 mS/cm	0.30 mg/L	11.70 NTU	74.6 mV	24.28 ft	100.00 ml/min
5/31/2023 11:05 AM	02:25:00	5.72 pH	21.64 °C	0.36 mS/cm	0.29 mg/L	10.10 NTU	72.6 mV	24.25 ft	100.00 ml/min
5/31/2023 11:10 AM	02:30:00	5.73 pH	21.60 °C	0.36 mS/cm	0.24 mg/L	18.00 NTU	88.8 mV	24.50 ft	100.00 ml/min
5/31/2023 11:15 AM	02:35:00	5.72 pH	21.06 °C	0.36 mS/cm	0.29 mg/L	17.70 NTU	74.3 mV	24.40 ft	100.00 ml/min
5/31/2023 11:20 AM	02:40:00	5.73 pH	21.70 °C	0.36 mS/cm	0.26 mg/L	20.00 NTU	88.4 mV	24.38 ft	100.00 ml/min
5/31/2023 11:25 AM	02:45:00	5.75 pH	18.97 °C	0.36 mS/cm	0.72 mg/L	25.50 NTU	95.5 mV	25.05 ft	380.00 ml/min
5/31/2023 11:30 AM	02:50:00	5.69 pH	19.09 °C	0.36 mS/cm	0.41 mg/L	23.70 NTU	100.2 mV	25.14 ft	380.00 ml/min
5/31/2023 11:35 AM	02:55:00	5.67 pH	18.74 °C	0.36 mS/cm	0.35 mg/L	22.50 NTU	102.5 mV	24.75 ft	175.00 ml/min
5/31/2023 11:40 AM	03:00:00	5.67 pH	20.08 °C	0.37 mS/cm	0.31 mg/L	17.20 NTU	100.8 mV	24.55 ft	175.00 ml/min
5/31/2023 11:45 AM	03:05:00	5.70 pH	19.96 °C	0.36 mS/cm	0.28 mg/L	14.20 NTU	82.7 mV	24.55 ft	175.00 ml/min
5/31/2023 11:50 AM	03:10:00	5.70 pH	20.23 °C	0.36 mS/cm	0.29 mg/L	16.50 NTU	94.6 mV	24.56 ft	175.00 ml/min
5/31/2023 11:55 AM	03:15:00	5.71 pH	19.92 °C	0.36 mS/cm	0.28 mg/L	18.50 NTU	97.0 mV	24.53 ft	175.00 ml/min
5/31/2023 12:00 PM	03:20:00	5.71 pH	20.32 °C	0.36 mS/cm	0.29 mg/L	19.20 NTU	97.7 mV	24.53 ft	175.00 ml/min
5/31/2023 12:05 PM	03:25:00	5.71 pH	20.04 °C	0.36 mS/cm	0.28 mg/L	18.00 NTU	82.2 mV	24.55 ft	175.00 ml/min

5/31/2023 12:10 PM	03:30:00	5.71 pH	20.30 °C	0.37 mS/cm	0.28 mg/L	17.70 NTU	94.6 mV	24.53 ft	175.00 ml/min
5/31/2023 12:15 PM	03:35:00	5.72 pH	20.17 °C	0.36 mS/cm	0.28 mg/L	18.90 NTU	81.7 mV	24.56 ft	175.00 ml/min
5/31/2023 12:20 PM	03:40:00	5.72 pH	20.14 °C	0.36 mS/cm	0.28 mg/L	19.60 NTU	80.0 mV	24.56 ft	175.00 ml/min
5/31/2023 12:25 PM	03:45:00	5.70 pH	20.56 °C	0.36 mS/cm	0.28 mg/L	21.50 NTU	94.5 mV	24.56 ft	175.00 ml/min
5/31/2023 12:30 PM	03:50:00	5.70 pH	21.23 °C	0.36 mS/cm	0.31 mg/L	22.20 NTU	97.6 mV	24.38 ft	125.00 ml/min
5/31/2023 12:35 PM	03:55:00	5.70 pH	21.10 °C	0.36 mS/cm	0.30 mg/L	23.00 NTU	98.7 mV	24.35 ft	125.00 ml/min
5/31/2023 12:40 PM	04:00:00	5.71 pH	20.91 °C	0.36 mS/cm	0.30 mg/L	17.40 NTU	99.5 mV	24.32 ft	125.00 ml/min
5/31/2023 12:45 PM	04:05:00	5.71 pH	21.53 °C	0.37 mS/cm	0.30 mg/L	19.00 NTU	99.2 mV	24.32 ft	125.00 ml/min
5/31/2023 12:50 PM	04:10:00	5.71 pH	22.71 °C	0.37 mS/cm	0.30 mg/L	15.90 NTU	100.2 mV	24.33 ft	125.00 ml/min
5/31/2023 12:55 PM	04:15:00	5.71 pH	22.62 °C	0.37 mS/cm	0.30 mg/L	18.10 NTU	100.8 mV	24.34 ft	125.00 ml/min
5/31/2023 1:00 PM	04:20:00	5.71 pH	23.19 °C	0.37 mS/cm	0.30 mg/L	17.70 NTU	101.3 mV	24.34 ft	125.00 ml/min
5/31/2023 1:05 PM	04:25:00	5.71 pH	22.19 °C	0.36 mS/cm	0.29 mg/L	14.20 NTU	101.6 mV	24.34 ft	125.00 ml/min
5/31/2023 1:10 PM	04:30:00	5.71 pH	22.16 °C	0.37 mS/cm	0.31 mg/L	16.00 NTU	101.2 mV	24.35 ft	125.00 ml/min
5/31/2023 1:15 PM	04:35:00	5.72 pH	23.16 °C	0.36 mS/cm	0.29 mg/L	13.80 NTU	101.6 mV	24.35 ft	125.00 ml/min
5/31/2023 1:20 PM	04:40:00	5.71 pH	22.94 °C	0.36 mS/cm	0.30 mg/L	15.00 NTU	87.3 mV	24.35 ft	125.00 ml/min
5/31/2023 1:25 PM	04:45:00	5.71 pH	22.76 °C	0.36 mS/cm	0.30 mg/L	14.00 NTU	84.8 mV	24.35 ft	50.00 ml/min
5/31/2023 1:30 PM	04:50:00	5.69 pH	23.57 °C	0.37 mS/cm	0.34 mg/L	13.40 NTU	83.5 mV	24.35 ft	50.00 ml/min
5/31/2023 1:35 PM	04:55:00	5.71 pH	23.89 °C	0.36 mS/cm	0.38 mg/L	10.80 NTU	83.1 mV	24.28 ft	50.00 ml/min
5/31/2023 1:40 PM	05:00:00	5.72 pH	23.39 °C	0.36 mS/cm	0.41 mg/L	13.50 NTU	82.1 mV	24.22 ft	50.00 ml/min
5/31/2023 1:45 PM	05:05:00	5.72 pH	23.43 °C	0.37 mS/cm	0.44 mg/L	16.20 NTU	82.5 mV	24.29 ft	125.00 ml/min
5/31/2023 1:50 PM	05:10:00	5.72 pH	23.52 °C	0.37 mS/cm	0.44 mg/L	15.00 NTU	95.4 mV	24.33 ft	125.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-15B	
SCH-AP1-FB2	

Low-Flow Test Report:

Test Date / Time: 5/31/2023 3:32:46 PM
Project: Plant Scherer
Operator Name: M. Mann

Location Name: SCH-TW-15C-D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.8 ft** **Total Depth: 54.8 ft** **Initial Depth to Water: 30.26 ft**	**Pump Type: Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
5/31/2023 3:32 PM	00:00	6.25 pH	29.87 °C	0.35 mS/cm	2.34 mg/L	49.60 NTU	140.0 mV	30.26 ft	150.00 ml/min
5/31/2023 3:37 PM	05:00	6.21 pH	22.02 °C	0.38 mS/cm	0.42 mg/L	28.20 NTU	95.2 mV	30.55 ft	150.00 ml/min
5/31/2023 3:42 PM	10:00	6.20 pH	21.15 °C	0.38 mS/cm	0.29 mg/L	13.50 NTU	93.9 mV	30.58 ft	150.00 ml/min
5/31/2023 3:47 PM	15:00	6.19 pH	21.39 °C	0.38 mS/cm	0.24 mg/L	8.22 NTU	75.1 mV	30.58 ft	150.00 ml/min
5/31/2023 3:52 PM	20:00	6.18 pH	21.78 °C	0.38 mS/cm	0.20 mg/L	5.45 NTU	83.2 mV	30.57 ft	150.00 ml/min
5/31/2023 3:57 PM	25:00	6.17 pH	22.05 °C	0.38 mS/cm	0.18 mg/L	4.80 NTU	69.9 mV	30.57 ft	150.00 ml/min
5/31/2023 4:02 PM	30:00	6.16 pH	22.05 °C	0.38 mS/cm	0.16 mg/L	4.44 NTU	77.0 mV	30.58 ft	150.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-15C-D	

Low-Flow Test Report:

Test Date / Time: 5/31/2023 1:02:50 PM
Project: Scherer temp well devel sampling
Operator Name: T Johnson

Location Name: SCH-TW-15C-S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 35 ft** **Total Depth: 40 ft** **Initial Depth to Water: 31.65 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 21791 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
5/31/2023 1:02 PM	00:00	4.52 pH	21.20 °C	418.07 µS/cm	1.62 mg/L	10.50 NTU	290.2 mV	32.04 ft	180.00 ml/min
5/31/2023 1:07 PM	04:13	4.48 pH	20.56 °C	416.54 µS/cm	1.60 mg/L		266.9 mV	31.99 ft	180.00 ml/min
5/31/2023 1:18 PM	16:07	4.47 pH	20.44 °C	428.16 µS/cm	1.70 mg/L		185.9 mV	31.99 ft	180.00 ml/min
5/31/2023 1:19 PM	16:16	4.47 pH	20.46 °C	427.52 µS/cm	1.68 mg/L		201.7 mV	31.99 ft	180.00 ml/min
5/31/2023 1:21 PM	18:37	4.47 pH	20.40 °C	427.24 µS/cm	1.59 mg/L	12.30 NTU	230.6 mV	31.99 ft	180.00 ml/min
5/31/2023 1:26 PM	23:37	4.47 pH	20.57 °C	422.78 µS/cm	1.58 mg/L	10.20 NTU	211.1 mV	31.98 ft	180.00 ml/min
5/31/2023 1:31 PM	28:37	4.47 pH	20.16 °C	425.10 µS/cm	1.56 mg/L	10.00 NTU	223.3 mV	31.98 ft	180.00 ml/min
5/31/2023 1:36 PM	33:37	4.47 pH	19.88 °C	427.73 µS/cm	1.65 mg/L	9.57 NTU	221.9 mV	31.99 ft	180.00 ml/min
5/31/2023 1:41 PM	38:37	4.47 pH	19.87 °C	427.17 µS/cm	1.55 mg/L	10.80 NTU	219.3 mV	31.99 ft	180.00 ml/min
5/31/2023 1:46 PM	43:37	4.48 pH	19.97 °C	424.83 µS/cm	1.56 mg/L	9.42 NTU	199.4 mV	31.92 ft	180.00 ml/min
5/31/2023 1:51 PM	48:37	4.48 pH	20.26 °C	427.11 µS/cm	1.56 mg/L	9.72 NTU	211.1 mV	31.93 ft	180.00 ml/min
5/31/2023 1:56 PM	53:37	4.48 pH	20.27 °C	423.27 µS/cm	1.55 mg/L	8.83 NTU	194.2 mV	31.93 ft	180.00 ml/min
5/31/2023 2:01 PM	58:37	4.49 pH	20.39 °C	425.17 µS/cm	1.54 mg/L	8.47 NTU	206.0 mV	31.88 ft	128.00 ml/min
5/31/2023 2:06 PM	01:03:37	4.49 pH	20.66 °C	424.03 µS/cm	1.54 mg/L	7.77 NTU	190.3 mV	31.88 ft	128.00 ml/min
5/31/2023 2:11 PM	01:08:37	4.49 pH	20.96 °C	426.10 µS/cm	1.54 mg/L	7.56 NTU	202.6 mV	31.88 ft	128.00 ml/min

5/31/2023 2:16 PM	01:13:37	4.49 pH	20.70 °C	422.86 µS/cm	1.53 mg/L	6.98 NTU	187.6 mV	31.88 ft	128.00 ml/min
5/31/2023 2:21 PM	01:18:37	4.49 pH	20.40 °C	423.80 µS/cm	1.54 mg/L	7.05 NTU	185.1 mV	31.88 ft	128.00 ml/min
5/31/2023 2:26 PM	01:23:37	4.49 pH	20.30 °C	426.39 µS/cm	1.55 mg/L	6.40 NTU	197.8 mV	31.89 ft	128.00 ml/min
5/31/2023 2:31 PM	01:28:37	4.49 pH	20.96 °C	424.52 µS/cm	1.53 mg/L	6.33 NTU	199.3 mV	31.89 ft	128.00 ml/min
5/31/2023 2:36 PM	01:33:37	4.49 pH	21.04 °C	424.10 µS/cm	1.52 mg/L	6.56 NTU	200.3 mV	31.70 ft	128.00 ml/min
5/31/2023 2:41 PM	01:38:37	4.49 pH	21.13 °C	423.37 µS/cm	1.53 mg/L	5.50 NTU	185.3 mV	31.70 ft	128.00 ml/min
5/31/2023 2:46 PM	01:43:37	4.49 pH	20.78 °C	424.54 µS/cm	1.52 mg/L	5.27 NTU	197.7 mV	31.83 ft	128.00 ml/min
5/31/2023 2:51 PM	01:48:37	4.49 pH	20.42 °C	425.51 µS/cm	1.53 mg/L	5.32 NTU	198.7 mV	31.83 ft	128.00 ml/min
5/31/2023 2:56 PM	01:53:37	4.49 pH	20.22 °C	423.54 µS/cm	1.54 mg/L	5.28 NTU	183.8 mV	31.83 ft	128.00 ml/min
5/31/2023 3:01 PM	01:58:37	4.49 pH	20.12 °C	425.98 µS/cm	1.53 mg/L	5.76 NTU	195.9 mV	31.83 ft	128.00 ml/min
5/31/2023 3:06 PM	02:03:37	4.48 pH	20.13 °C	423.34 µS/cm	1.53 mg/L	6.56 NTU	182.2 mV	31.88 ft	128.00 ml/min
5/31/2023 3:11 PM	02:08:37	4.48 pH	20.13 °C	425.23 µS/cm	1.53 mg/L	5.71 NTU	194.0 mV	31.88 ft	128.00 ml/min
5/31/2023 3:16 PM	02:13:37	4.49 pH	20.35 °C	426.65 µS/cm	1.53 mg/L	5.89 NTU	195.2 mV	31.85 ft	128.00 ml/min
5/31/2023 3:21 PM	02:18:37	4.48 pH	20.67 °C	426.04 µS/cm	1.54 mg/L	5.19 NTU	180.9 mV	31.82 ft	100.00 ml/min
5/31/2023 3:26 PM	02:23:37	4.49 pH	21.56 °C	425.68 µS/cm	1.53 mg/L	5.07 NTU	178.9 mV	31.81 ft	100.00 ml/min
5/31/2023 3:31 PM	02:28:37	4.49 pH	21.83 °C	425.68 µS/cm	1.52 mg/L	4.75 NTU	191.7 mV	31.81 ft	100.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-15C-S	Sulfide, TDS, Chloride, fluoride, sulfate, metals, dissolved cobalt, alkalinity

Low-Flow Test Report:

Test Date / Time: 5/26/2023 9:28:14 AM
Project: Scherer temp well devel sampling
Operator Name: T Johnson

Location Name: SCH-TW-18A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40 ft** **Total Depth: 50 ft** **Initial Depth to Water: 36.75 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 45 ft** **Estimated Total Volume Pumped: 35000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
5/26/2023 9:28 AM	00:00	5.29 pH	20.57 °C	1,716.8 µS/cm	0.91 mg/L	100.00 NTU	269.5 mV	36.85 ft	280.00 ml/min
5/26/2023 9:33 AM	05:00	5.28 pH	20.33 °C	1,699.0 µS/cm	0.88 mg/L	77.80 NTU	267.8 mV	36.84 ft	280.00 ml/min
5/26/2023 9:38 AM	10:00	5.28 pH	20.34 °C	1,677.9 µS/cm	0.84 mg/L	58.30 NTU	315.5 mV	36.85 ft	280.00 ml/min
5/26/2023 9:43 AM	15:00	5.28 pH	20.35 °C	1,676.7 µS/cm	0.81 mg/L	34.30 NTU	336.0 mV	36.85 ft	280.00 ml/min
5/26/2023 9:48 AM	20:00	5.28 pH	20.35 °C	1,688.2 µS/cm	0.77 mg/L	27.60 NTU	301.6 mV	36.86 ft	280.00 ml/min
5/26/2023 9:53 AM	25:00	5.28 pH	20.35 °C	1,677.8 µS/cm	0.79 mg/L	21.80 NTU	357.4 mV	36.85 ft	280.00 ml/min
5/26/2023 9:58 AM	30:00	5.28 pH	20.39 °C	1,676.8 µS/cm	0.77 mg/L	14.30 NTU	376.7 mV	36.86 ft	280.00 ml/min
5/26/2023 10:03 AM	35:00	5.28 pH	20.49 °C	1,676.9 µS/cm	0.76 mg/L	12.60 NTU	392.9 mV	36.85 ft	280.00 ml/min
5/26/2023 10:08 AM	40:00	5.28 pH	20.48 °C	1,675.9 µS/cm	0.74 mg/L	11.50 NTU	403.3 mV	36.86 ft	280.00 ml/min
5/26/2023 10:13 AM	45:00	5.28 pH	20.55 °C	1,692.0 µS/cm	0.76 mg/L	9.50 NTU	336.5 mV	36.86 ft	280.00 ml/min
5/26/2023 10:18 AM	50:00	5.28 pH	20.62 °C	1,677.1 µS/cm	0.75 mg/L	9.10 NTU	405.3 mV	36.85 ft	280.00 ml/min
5/26/2023 10:23 AM	55:00	5.28 pH	20.61 °C	1,675.9 µS/cm	0.74 mg/L	6.88 NTU	420.0 mV	36.85 ft	280.00 ml/min
5/26/2023 10:28 AM	01:00:00	5.28 pH	20.60 °C	1,699.0 µS/cm	0.74 mg/L	7.11 NTU	350.1 mV	36.87 ft	280.00 ml/min
5/26/2023 10:33 AM	01:05:00	5.27 pH	20.60 °C	1,676.1 µS/cm	0.75 mg/L	6.34 NTU	422.3 mV	36.86 ft	280.00 ml/min
5/26/2023 10:38 AM	01:10:00	5.28 pH	20.58 °C	1,677.0 µS/cm	0.74 mg/L	5.92 NTU	438.1 mV	36.84 ft	280.00 ml/min

5/26/2023 10:43 AM	01:15:00	5.28 pH	20.62 °C	1,678.3 µS/cm	0.73 mg/L	5.85 NTU	445.9 mV	36.84 ft	280.00 ml/min
5/26/2023 10:48 AM	01:20:00	5.28 pH	20.71 °C	1,676.9 µS/cm	0.74 mg/L	6.40 NTU	448.6 mV	36.85 ft	280.00 ml/min
5/26/2023 10:53 AM	01:25:00	5.28 pH	20.69 °C	1,676.9 µS/cm	0.74 mg/L	5.63 NTU	455.1 mV	36.85 ft	280.00 ml/min
5/26/2023 10:58 AM	01:30:00	5.28 pH	20.55 °C	1,688.4 µS/cm	0.75 mg/L	5.14 NTU	368.7 mV	36.84 ft	280.00 ml/min
5/26/2023 11:03 AM	01:35:00	5.28 pH	20.86 °C	1,672.2 µS/cm	0.74 mg/L	5.24 NTU	444.9 mV	36.84 ft	280.00 ml/min
5/26/2023 11:08 AM	01:40:00	5.28 pH	21.02 °C	1,671.2 µS/cm	0.73 mg/L	4.25 NTU	460.6 mV	36.85 ft	280.00 ml/min
5/26/2023 11:13 AM	01:45:00	5.28 pH	21.05 °C	1,672.5 µS/cm	0.73 mg/L	4.75 NTU	465.5 mV	36.85 ft	280.00 ml/min
5/26/2023 11:18 AM	01:50:00	5.28 pH	21.10 °C	1,672.9 µS/cm	0.73 mg/L	4.30 NTU	469.0 mV	36.84 ft	280.00 ml/min
5/26/2023 11:23 AM	01:55:00	5.28 pH	21.02 °C	1,686.4 µS/cm	0.73 mg/L	3.03 NTU	374.8 mV	36.84 ft	280.00 ml/min
5/26/2023 11:28 AM	02:00:00	5.28 pH	21.06 °C	1,674.0 µS/cm	0.73 mg/L	3.41 NTU	453.3 mV	36.84 ft	280.00 ml/min
5/26/2023 11:33 AM	02:05:00	5.28 pH	21.19 °C	1,672.8 µS/cm	0.71 mg/L	3.20 NTU	466.6 mV	36.84 ft	280.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-18 A	Sulfide, dissolves cobalt, alkalinity,chloride,fluoride, sulfate, metals, TDS

Low-Flow Test Report:

Test Date / Time: 5/30/2023 10:58:51 AM
Project: Scherer temp well devel sampling (3)
Operator Name: T Johnson

Location Name: SCH-TW-18 B **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28 ft** **Total Depth: 38 ft** **Initial Depth to Water: 30.28 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 24320 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 156 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
5/30/2023 10:58 AM	00:00	6.96 pH	21.55 °C	1,404.4 µS/cm	1.72 mg/L	74.90 NTU	83.0 mV	30.44 ft	272.00 ml/min
5/30/2023 11:03 AM	05:00	6.96 pH	21.42 °C	1,413.3 µS/cm	2.15 mg/L	46.40 NTU	86.2 mV	30.40 ft	272.00 ml/min
5/30/2023 11:08 AM	10:00	6.97 pH	21.39 °C	1,346.5 µS/cm	1.97 mg/L	44.10 NTU	91.3 mV	30.43 ft	272.00 ml/min
5/30/2023 11:13 AM	15:00	6.96 pH	21.35 °C	1,305.5 µS/cm	2.18 mg/L	38.60 NTU	96.4 mV	30.40 ft	272.00 ml/min
5/30/2023 11:18 AM	20:00	6.96 pH	21.39 °C	1,295.6 µS/cm	2.30 mg/L	28.80 NTU	103.3 mV	30.39 ft	272.00 ml/min
5/30/2023 11:23 AM	25:00	6.96 pH	21.49 °C	1,282.6 µS/cm	2.56 mg/L	30.10 NTU	105.9 mV	30.41 ft	272.00 ml/min
5/30/2023 11:28 AM	30:00	6.96 pH	21.47 °C	1,284.0 µS/cm	2.54 mg/L	22.60 NTU	92.5 mV	30.41 ft	272.00 ml/min
5/30/2023 11:33 AM	35:00	6.96 pH	21.56 °C	1,276.3 µS/cm	2.41 mg/L	20.60 NTU	89.7 mV	30.42 ft	272.00 ml/min
5/30/2023 11:38 AM	40:00	6.96 pH	21.58 °C	1,323.7 µS/cm	2.46 mg/L	18.20 NTU	88.6 mV	30.39 ft	272.00 ml/min
5/30/2023 11:43 AM	45:00	6.95 pH	21.57 °C	1,270.0 µS/cm	2.52 mg/L	17.00 NTU	88.4 mV	30.39 ft	272.00 ml/min
5/30/2023 11:48 AM	50:00	6.96 pH	21.62 °C	1,267.6 µS/cm	2.65 mg/L	10.30 NTU	89.0 mV	30.38 ft	272.00 ml/min
5/30/2023 11:53 AM	55:00	6.94 pH	21.91 °C	1,249.2 µS/cm	2.27 mg/L	9.04 NTU	104.0 mV	30.37 ft	156.00 ml/min
5/30/2023 11:58 AM	01:00:00	6.94 pH	21.84 °C	1,264.2 µS/cm	2.12 mg/L	9.56 NTU	103.9 mV	30.37 ft	156.00 ml/min
5/30/2023 12:03 PM	01:05:00	6.94 pH	22.33 °C	1,266.2 µS/cm	2.10 mg/L	7.63 NTU	103.3 mV	30.37 ft	156.00 ml/min
5/30/2023 12:08 PM	01:10:00	6.94 pH	21.96 °C	1,255.8 µS/cm	2.11 mg/L	7.54 NTU	102.8 mV	30.37 ft	156.00 ml/min

5/30/2023 12:13 PM	01:15:00	6.94 pH	22.20 °C	1,255.9 µS/cm	2.09 mg/L	6.62 NTU	99.6 mV	30.38 ft	156.00 ml/min
5/30/2023 12:18 PM	01:20:00	6.95 pH	22.27 °C	1,281.5 µS/cm	2.02 mg/L	6.86 NTU	84.4 mV	30.38 ft	156.00 ml/min
5/30/2023 12:23 PM	01:25:00	6.95 pH	22.29 °C	1,273.7 µS/cm	2.02 mg/L	5.93 NTU	96.8 mV	30.37 ft	156.00 ml/min
5/30/2023 12:28 PM	01:30:00	6.95 pH	22.27 °C	1,281.0 µS/cm	2.01 mg/L	5.78 NTU	96.9 mV	30.37 ft	156.00 ml/min
5/30/2023 12:33 PM	01:35:00	6.94 pH	22.34 °C	1,263.8 µS/cm	2.03 mg/L	5.03 NTU	96.5 mV	30.36 ft	156.00 ml/min
5/30/2023 12:38 PM	01:40:00	6.94 pH	22.36 °C	1,265.7 µS/cm	2.02 mg/L	4.73 NTU	96.8 mV	30.37 ft	156.00 ml/min
5/30/2023 12:43 PM	01:45:00	6.95 pH	21.91 °C	1,317.3 µS/cm	1.97 mg/L	4.39 NTU	82.8 mV	30.37 ft	156.00 ml/min
5/30/2023 12:48 PM	01:50:00	6.95 pH	21.64 °C	1,269.0 µS/cm	2.07 mg/L	4.31 NTU	92.6 mV	30.38 ft	156.00 ml/min
5/30/2023 12:53 PM	01:55:00	6.95 pH	21.52 °C	1,274.8 µS/cm	2.05 mg/L	3.23 NTU	79.8 mV	30.38 ft	156.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-18B	TDS, Alkalinity, Sulfide, Dissolved cobalt, metals, chloride, fluoride, sulfate

Low-Flow Test Report:

Test Date / Time: 5/25/2023 9:59:26 AM
Project: Scherer temp well devel sampling (2)
Operator Name: T Johnson

Location Name: SCH-TW-18C **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43 ft** **Total Depth: 53 ft** **Initial Depth to Water: 36.56 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 52919.465 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 256 ml/min** **Final Draw Down: 0.69 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
5/25/2023 9:59 AM	00:00	5.99 pH	20.90 °C	1,672.9 µS/cm	1.03 mg/L	21.20 NTU	142.8 mV	37.31 ft	256.00 ml/min
5/25/2023 10:04 AM	05:00	5.88 pH	20.87 °C	1,629.7 µS/cm	1.39 mg/L	17.90 NTU	129.9 mV	37.29 ft	256.00 ml/min
5/25/2023 10:09 AM	10:00	5.89 pH	20.73 °C	1,602.0 µS/cm	1.82 mg/L	10.10 NTU	117.6 mV	37.28 ft	256.00 ml/min
5/25/2023 10:14 AM	15:00	5.90 pH	20.80 °C	1,484.8 µS/cm	1.97 mg/L	7.98 NTU	132.6 mV	37.29 ft	256.00 ml/min
5/25/2023 10:19 AM	20:00	5.90 pH	20.87 °C	1,601.4 µS/cm	1.80 mg/L	6.40 NTU	111.4 mV	37.31 ft	256.00 ml/min
5/25/2023 10:24 AM	25:00	5.90 pH	20.89 °C	1,601.1 µS/cm	1.75 mg/L	5.78 NTU	106.9 mV	37.27 ft	256.00 ml/min
5/25/2023 10:29 AM	30:00	5.90 pH	20.88 °C	1,600.2 µS/cm	2.51 mg/L	4.75 NTU	105.1 mV	37.29 ft	256.00 ml/min
5/25/2023 10:34 AM	35:00	5.90 pH	20.93 °C	1,596.8 µS/cm	2.24 mg/L	4.68 NTU	103.0 mV	37.29 ft	256.00 ml/min
5/25/2023 10:39 AM	40:00	5.90 pH	20.73 °C	1,589.9 µS/cm	1.87 mg/L	4.56 NTU	119.0 mV	37.29 ft	256.00 ml/min
5/25/2023 10:44 AM	45:00	5.89 pH	20.84 °C	1,598.9 µS/cm	2.12 mg/L	3.89 NTU	103.8 mV	37.29 ft	256.00 ml/min
5/25/2023 10:49 AM	50:00	5.90 pH	20.86 °C	1,599.8 µS/cm	1.95 mg/L	3.91 NTU	100.4 mV	37.29 ft	256.00 ml/min
5/25/2023 10:54 AM	55:00	5.89 pH	20.83 °C	1,603.7 µS/cm	1.53 mg/L	3.29 NTU	99.6 mV	37.30 ft	256.00 ml/min
5/25/2023 10:59 AM	01:00:00	5.89 pH	20.93 °C	1,650.1 µS/cm	1.86 mg/L	3.48 NTU	99.4 mV	37.29 ft	256.00 ml/min
5/25/2023 11:04 AM	01:05:00	5.89 pH	20.98 °C	1,650.7 µS/cm	2.38 mg/L	2.83 NTU	99.1 mV	37.29 ft	256.00 ml/min
5/25/2023 11:09 AM	01:10:00	5.88 pH	20.93 °C	1,588.1 µS/cm	2.07 mg/L	3.19 NTU	113.9 mV	37.28 ft	256.00 ml/min

5/25/2023 11:14 AM	01:15:00	5.88 pH	20.93 °C	1,588.7 µS/cm	2.08 mg/L	2.99 NTU	116.9 mV	37.28 ft	256.00 ml/min
5/25/2023 11:19 AM	01:20:00	5.88 pH	20.98 °C	1,639.8 µS/cm	1.64 mg/L	3.34 NTU	100.7 mV	37.28 ft	256.00 ml/min
5/25/2023 11:24 AM	01:25:00	5.88 pH	20.96 °C	1,647.4 µS/cm	2.29 mg/L	2.85 NTU	100.9 mV	37.28 ft	256.00 ml/min
5/25/2023 11:29 AM	01:30:00	5.87 pH	20.98 °C	1,602.9 µS/cm	1.50 mg/L	3.80 NTU	98.9 mV	37.28 ft	256.00 ml/min
5/25/2023 11:34 AM	01:35:00	5.87 pH	21.09 °C	1,596.2 µS/cm	1.52 mg/L	2.38 NTU	98.2 mV	37.27 ft	256.00 ml/min
5/25/2023 11:39 AM	01:40:00	5.87 pH	21.02 °C	1,568.2 µS/cm	1.88 mg/L	2.40 NTU	97.6 mV	37.27 ft	256.00 ml/min
5/25/2023 11:44 AM	01:45:00	5.87 pH	20.98 °C	1,594.7 µS/cm	2.11 mg/L	2.62 NTU	98.7 mV	37.27 ft	256.00 ml/min
5/25/2023 11:49 AM	01:50:00	5.87 pH	21.06 °C	1,589.1 µS/cm	1.76 mg/L	2.43 NTU	112.7 mV	37.26 ft	256.00 ml/min
5/25/2023 11:54 AM	01:55:00	5.87 pH	21.21 °C	1,596.1 µS/cm	1.49 mg/L	2.65 NTU	101.4 mV	37.27 ft	256.00 ml/min
5/25/2023 11:59 AM	02:00:11	5.87 pH	21.17 °C	1,650.9 µS/cm	1.28 mg/L	2.47 NTU	107.9 mV	37.27 ft	256.00 ml/min
5/25/2023 12:03 PM	02:03:43	5.87 pH	21.07 °C	1,729.7 µS/cm	2.20 mg/L		105.8 mV	37.27 ft	256.00 ml/min
5/25/2023 12:06 PM	02:06:59	5.87 pH	21.05 °C	1,591.1 µS/cm	2.16 mg/L	2.12 NTU	112.1 mV	37.29 ft	256.00 ml/min
5/25/2023 12:11 PM	02:11:59	5.86 pH	21.16 °C	1,625.8 µS/cm	1.50 mg/L	2.31 NTU	101.4 mV	37.28 ft	256.00 ml/min
5/25/2023 12:12 PM	02:12:51	5.86 pH	21.20 °C	1,735.9 µS/cm	1.45 mg/L		97.7 mV	37.29 ft	256.00 ml/min
5/25/2023 12:12 PM	02:13:23	5.86 pH	21.24 °C	1,756.9 µS/cm	1.40 mg/L		92.6 mV	37.29 ft	256.00 ml/min
5/25/2023 12:15 PM	02:15:53	5.86 pH	21.12 °C	1,755.1 µS/cm	1.79 mg/L	2.38 NTU	94.7 mV	37.28 ft	256.00 ml/min
5/25/2023 12:20 PM	02:20:53	5.86 pH	21.09 °C	1,619.8 µS/cm	2.17 mg/L	2.17 NTU	96.6 mV	37.28 ft	256.00 ml/min
5/25/2023 12:25 PM	02:25:53	5.86 pH	21.07 °C	1,646.9 µS/cm	2.52 mg/L	1.99 NTU	99.5 mV	37.28 ft	256.00 ml/min
5/25/2023 12:30 PM	02:30:53	5.86 pH	21.19 °C	1,636.4 µS/cm	2.66 mg/L	2.07 NTU	100.2 mV	37.27 ft	256.00 ml/min
5/25/2023 12:35 PM	02:35:53	5.85 pH	21.20 °C	1,635.7 µS/cm	2.19 mg/L	2.18 NTU	100.4 mV	37.27 ft	256.00 ml/min
5/25/2023 12:40 PM	02:40:53	5.86 pH	21.31 °C	1,634.0 µS/cm	1.76 mg/L	1.84 NTU	99.5 mV	37.27 ft	256.00 ml/min
5/25/2023 12:45 PM	02:45:53	5.86 pH	21.22 °C	1,612.8 µS/cm	2.02 mg/L	2.17 NTU	100.0 mV	37.28 ft	256.00 ml/min
5/25/2023 12:50 PM	02:50:53	5.86 pH	21.29 °C	1,609.9 µS/cm	1.83 mg/L	2.03 NTU	100.6 mV	37.28 ft	256.00 ml/min
5/25/2023 12:55 PM	02:55:53	5.85 pH	21.36 °C	1,583.6 µS/cm	1.61 mg/L	2.07 NTU	113.6 mV	37.28 ft	256.00 ml/min
5/25/2023 12:56 PM	02:57:03	5.85 pH	21.42 °C	1,736.9 µS/cm	1.42 mg/L		102.8 mV	37.28 ft	256.00 ml/min
5/25/2023 1:00 PM	03:01:17	5.85 pH	21.31 °C	1,589.6 µS/cm	1.71 mg/L	1.81 NTU	111.9 mV	37.28 ft	256.00 ml/min
5/25/2023 1:06 PM	03:06:43	5.85 pH	21.29 °C	1,682.8 µS/cm	2.10 mg/L	2.15 NTU	109.4 mV	37.27 ft	256.00 ml/min
5/25/2023 1:11 PM	03:11:43	5.85 pH	21.30 °C	1,610.6 µS/cm	1.98 mg/L	1.64 NTU	103.0 mV	37.28 ft	256.00 ml/min
5/25/2023 1:16 PM	03:16:43	5.85 pH	21.33 °C	1,563.3 µS/cm	1.56 mg/L	1.64 NTU	101.0 mV	37.26 ft	256.00 ml/min

5/25/2023 1:21 PM	03:21:43	5.85 pH	21.30 °C	1,634.3 µS/cm	2.38 mg/L	1.87 NTU	101.9 mV	37.26 ft	256.00 ml/min
5/25/2023 1:26 PM	03:26:43	5.85 pH	21.36 °C	1,586.7 µS/cm	1.74 mg/L	1.81 NTU	114.6 mV	37.25 ft	256.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-18C	Sulfide, Dissolved Cobalt, alkalinity, metals, chloride, fluoride, sulfate, TDS

Low-Flow Test Report:

Test Date / Time: 5/30/2023 10:53:13 AM
Project: Plant Scherer
Operator Name: M. Mann

Location Name: SCH-TW-18D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40 ft** **Total Depth: 50 ft** **Initial Depth to Water: 43.28 ft**	**Pump Type: Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 21968.666 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
5/30/2023 10:53 AM	00:00	6.10 pH	27.97 °C	2.08 mS/cm	3.02 mg/L	808.00 NTU	153.5 mV	43.28 ft	140.00 ml/min
5/30/2023 10:58 AM	05:00	5.85 pH	23.32 °C	2.18 mS/cm	0.93 mg/L	597.00 NTU	101.4 mV	43.38 ft	140.00 ml/min
5/30/2023 11:03 AM	10:00	5.82 pH	23.09 °C	2.19 mS/cm	0.87 mg/L	316.00 NTU	111.5 mV	43.39 ft	140.00 ml/min
5/30/2023 11:08 AM	15:00	5.79 pH	23.43 °C	2.18 mS/cm	0.90 mg/L	257.00 NTU	110.3 mV	43.41 ft	140.00 ml/min
5/30/2023 11:13 AM	20:00	5.78 pH	23.12 °C	2.19 mS/cm	0.94 mg/L	152.00 NTU	79.3 mV	43.39 ft	140.00 ml/min
5/30/2023 11:18 AM	25:00	5.77 pH	23.15 °C	2.19 mS/cm	0.95 mg/L	109.00 NTU	80.9 mV	43.39 ft	140.00 ml/min
5/30/2023 11:23 AM	30:00	5.76 pH	23.16 °C	2.19 mS/cm	0.98 mg/L	67.20 NTU	82.0 mV	43.39 ft	140.00 ml/min
5/30/2023 11:28 AM	35:00	5.74 pH	23.16 °C	2.20 mS/cm	1.02 mg/L	50.30 NTU	80.2 mV	43.40 ft	140.00 ml/min
5/30/2023 11:33 AM	40:00	5.73 pH	23.29 °C	2.19 mS/cm	1.06 mg/L	37.60 NTU	101.7 mV	43.38 ft	140.00 ml/min
5/30/2023 11:38 AM	45:00	5.72 pH	23.43 °C	2.20 mS/cm	1.13 mg/L	29.50 NTU	83.3 mV	43.39 ft	140.00 ml/min
5/30/2023 11:43 AM	50:00	5.72 pH	23.44 °C	2.20 mS/cm	1.08 mg/L	21.70 NTU	81.2 mV	43.41 ft	140.00 ml/min
5/30/2023 11:48 AM	55:00	5.71 pH	23.61 °C	2.20 mS/cm	1.08 mg/L	22.70 NTU	81.0 mV	43.37 ft	140.00 ml/min
5/30/2023 11:53 AM	01:00:00	5.71 pH	23.52 °C	2.20 mS/cm	1.14 mg/L	17.70 NTU	102.5 mV	43.37 ft	140.00 ml/min

5/30/2023 11:57 AM	01:04:18	5.71 pH	23.21 °C	2.17 mS/cm	1.12 mg/L	18.40 NTU	87.5 mV	43.38 ft	140.00 ml/min
5/30/2023 12:02 PM	01:09:18	5.70 pH	23.27 °C	2.20 mS/cm	1.18 mg/L	16.70 NTU	84.5 mV	43.38 ft	100.00 ml/min
5/30/2023 12:07 PM	01:14:18	5.71 pH	23.70 °C	2.20 mS/cm	1.19 mg/L	18.60 NTU	104.6 mV	43.38 ft	100.00 ml/min
5/30/2023 12:13 PM	01:19:58	5.70 pH	23.65 °C	2.21 mS/cm	1.17 mg/L	19.50 NTU	94.5 mV	43.38 ft	100.00 ml/min
5/30/2023 12:18 PM	01:24:58	5.67 pH	23.90 °C	2.21 mS/cm	1.44 mg/L	523.00 NTU	89.6 mV	43.38 ft	100.00 ml/min
5/30/2023 12:23 PM	01:29:58	5.64 pH	23.90 °C	2.24 mS/cm	1.55 mg/L	405.00 NTU	112.2 mV	43.38 ft	100.00 ml/min
5/30/2023 12:28 PM	01:34:58	5.65 pH	25.01 °C	2.23 mS/cm	1.42 mg/L	181.00 NTU	114.0 mV	43.38 ft	100.00 ml/min
5/30/2023 12:33 PM	01:39:58	5.66 pH	25.05 °C	2.22 mS/cm	1.42 mg/L	88.90 NTU	113.2 mV	43.36 ft	100.00 ml/min
5/30/2023 12:38 PM	01:44:58	5.67 pH	25.37 °C	2.22 mS/cm	1.37 mg/L	60.70 NTU	113.0 mV	43.34 ft	100.00 ml/min
5/30/2023 12:43 PM	01:49:58	5.70 pH	24.78 °C	2.20 mS/cm	1.31 mg/L	41.50 NTU	111.2 mV	43.35 ft	100.00 ml/min
5/30/2023 12:48 PM	01:54:58	5.69 pH	23.25 °C	2.22 mS/cm	1.33 mg/L	28.00 NTU	108.1 mV	43.35 ft	100.00 ml/min
5/30/2023 12:53 PM	01:59:58	5.70 pH	23.79 °C	2.20 mS/cm	1.27 mg/L	30.50 NTU	109.3 mV	43.36 ft	100.00 ml/min
5/30/2023 12:58 PM	02:04:58	5.70 pH	23.07 °C	2.22 mS/cm	1.30 mg/L	18.10 NTU	109.0 mV	43.33 ft	100.00 ml/min
5/30/2023 1:03 PM	02:09:58	5.70 pH	22.85 °C	2.21 mS/cm	1.29 mg/L	19.50 NTU	89.3 mV	43.35 ft	100.00 ml/min
5/30/2023 1:08 PM	02:14:58	5.68 pH	23.32 °C	2.24 mS/cm	1.33 mg/L	15.60 NTU	82.6 mV	43.35 ft	100.00 ml/min
5/30/2023 1:13 PM	02:20:37	5.67 pH	24.91 °C	2.21 mS/cm	1.33 mg/L	14.10 NTU	99.0 mV	43.34 ft	100.00 ml/min
5/30/2023 1:18 PM	02:25:37	5.68 pH	23.88 °C	2.20 mS/cm	1.31 mg/L	12.50 NTU	90.2 mV	43.35 ft	100.00 ml/min
5/30/2023 1:30 PM	02:36:58	5.67 pH	25.15 °C	2.23 mS/cm	1.34 mg/L	11.10 NTU	106.6 mV	43.35 ft	100.00 ml/min
5/30/2023 1:35 PM	02:41:58	5.67 pH	25.37 °C	2.22 mS/cm	1.31 mg/L	9.27 NTU	97.6 mV	43.35 ft	100.00 ml/min
5/30/2023 1:40 PM	02:46:58	5.66 pH	25.69 °C	2.23 mS/cm	1.32 mg/L	8.06 NTU	110.5 mV	43.33 ft	100.00 ml/min
5/30/2023 1:45 PM	02:51:58	5.66 pH	25.86 °C	2.23 mS/cm	1.36 mg/L	8.63 NTU	113.3 mV	43.34 ft	100.00 ml/min
5/30/2023 1:50 PM	02:56:58	5.66 pH	25.08 °C	2.23 mS/cm	1.37 mg/L	7.82 NTU	95.7 mV	43.34 ft	100.00 ml/min
5/30/2023 1:55 PM	03:01:58	5.66 pH	25.05 °C	2.23 mS/cm	1.38 mg/L	6.22 NTU	111.3 mV	43.35 ft	100.00 ml/min
5/30/2023 2:00 PM	03:06:58	5.66 pH	24.51 °C	2.24 mS/cm	1.40 mg/L	5.35 NTU	96.1 mV	43.36 ft	100.00 ml/min
5/30/2023 2:05 PM	03:11:58	5.66 pH	25.35 °C	2.23 mS/cm	1.38 mg/L	4.81 NTU	111.9 mV	43.33 ft	100.00 ml/min

Samples

Sample ID:	Description:

SCH-TW-18D	

Low-Flow Test Report:

Test Date / Time: 6/1/2023 12:53:07 PM
Project: Plant Scherer
Operator Name: M. Mann

Location Name: SCH-TW-20A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft** **Initial Depth to Water: 12.44 ft**	**Pump Type: Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 12750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
6/1/2023 12:53 PM	00:00	6.09 pH	29.37 °C	0.45 mS/cm	2.04 mg/L	44.80 NTU	96.6 mV	12.44 ft	150.00 ml/min
6/1/2023 12:58 PM	05:00	6.14 pH	24.38 °C	0.45 mS/cm	0.71 mg/L	36.80 NTU	82.6 mV	12.65 ft	150.00 ml/min
6/1/2023 1:03 PM	10:00	6.15 pH	23.29 °C	0.45 mS/cm	0.60 mg/L	32.60 NTU	60.1 mV	12.65 ft	150.00 ml/min
6/1/2023 1:08 PM	15:00	6.14 pH	22.38 °C	0.45 mS/cm	0.55 mg/L	22.90 NTU	54.7 mV	12.88 ft	300.00 ml/min
6/1/2023 1:13 PM	20:00	6.14 pH	22.38 °C	0.45 mS/cm	0.42 mg/L	17.10 NTU	51.4 mV	12.98 ft	300.00 ml/min
6/1/2023 1:18 PM	25:00	6.13 pH	22.31 °C	0.45 mS/cm	0.37 mg/L	13.80 NTU	49.6 mV	12.88 ft	300.00 ml/min
6/1/2023 1:23 PM	30:00	6.13 pH	22.52 °C	0.45 mS/cm	0.34 mg/L	9.12 NTU	48.1 mV	12.91 ft	300.00 ml/min
6/1/2023 1:28 PM	35:00	6.13 pH	22.58 °C	0.44 mS/cm	0.34 mg/L	6.27 NTU	46.9 mV	12.94 ft	300.00 ml/min
6/1/2023 1:33 PM	40:00	6.13 pH	22.53 °C	0.45 mS/cm	0.34 mg/L	5.40 NTU	52.1 mV	12.93 ft	300.00 ml/min
6/1/2023 1:38 PM	45:00	6.12 pH	22.67 °C	0.45 mS/cm	0.33 mg/L	5.55 NTU	51.3 mV	12.96 ft	300.00 ml/min
6/1/2023 1:43 PM	50:00	6.12 pH	22.72 °C	0.45 mS/cm	0.33 mg/L	4.72 NTU	42.8 mV	12.89 ft	300.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-20A	
SCH-AP1-EB2	Equipment Blank

Low-Flow Test Report:

Test Date / Time: 6/1/2023 11:21:34 AM
Project: Scherer temp well devel sampling
Operator Name: T Johnson

Location Name: SCH-TW-20B **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 45 ft** **Total Depth: 55 ft** **Initial Depth to Water: 7.19 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 19460 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 136 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
6/1/2023 11:21 AM	00:00	5.95 pH	20.57 °C	236.05 µS/cm	0.64 mg/L	192.00 NTU	122.3 mV	7.34 ft	160.00 ml/min
6/1/2023 11:26 AM	05:00	5.94 pH	20.67 °C	238.18 µS/cm	0.22 mg/L	100.00 NTU	95.8 mV	7.31 ft	160.00 ml/min
6/1/2023 11:31 AM	10:00	5.94 pH	20.89 °C	237.79 µS/cm	0.14 mg/L	79.50 NTU	97.5 mV	7.31 ft	160.00 ml/min
6/1/2023 11:36 AM	15:00	5.94 pH	20.98 °C	237.59 µS/cm	0.11 mg/L	51.90 NTU	79.2 mV	7.31 ft	160.00 ml/min
6/1/2023 11:41 AM	20:00	5.94 pH	21.02 °C	239.92 µS/cm	0.09 mg/L	39.20 NTU	84.4 mV	7.33 ft	160.00 ml/min
6/1/2023 11:46 AM	25:00	5.94 pH	21.02 °C	237.82 µS/cm	0.09 mg/L	27.00 NTU	74.2 mV	7.31 ft	160.00 ml/min
6/1/2023 11:51 AM	30:00	5.94 pH	21.02 °C	237.75 µS/cm	0.09 mg/L	19.90 NTU	72.6 mV	7.31 ft	160.00 ml/min
6/1/2023 11:56 AM	35:00	5.94 pH	20.94 °C	237.72 µS/cm	0.08 mg/L	17.60 NTU	71.7 mV	7.33 ft	160.00 ml/min
6/1/2023 12:01 PM	40:00	5.94 pH	20.85 °C	239.32 µS/cm	0.08 mg/L	15.00 NTU	80.0 mV	7.31 ft	160.00 ml/min
6/1/2023 12:06 PM	45:00	5.94 pH	21.06 °C	238.40 µS/cm	0.08 mg/L	13.60 NTU	71.8 mV	7.30 ft	140.00 ml/min
6/1/2023 12:11 PM	50:00	5.94 pH	20.93 °C	239.80 µS/cm	0.07 mg/L	12.40 NTU	78.9 mV	7.30 ft	140.00 ml/min
6/1/2023 12:16 PM	55:00	5.94 pH	20.93 °C	239.17 µS/cm	0.07 mg/L	10.70 NTU	70.6 mV	7.30 ft	140.00 ml/min
6/1/2023 12:21 PM	01:00:00	5.94 pH	20.85 °C	239.83 µS/cm	0.07 mg/L	11.40 NTU	77.4 mV	7.31 ft	128.00 ml/min
6/1/2023 12:26 PM	01:05:00	5.94 pH	20.88 °C	239.14 µS/cm	0.07 mg/L	8.99 NTU	78.4 mV	7.32 ft	128.00 ml/min
6/1/2023 12:31 PM	01:10:00	5.94 pH	20.89 °C	238.86 µS/cm	0.07 mg/L	9.80 NTU	78.9 mV	7.32 ft	128.00 ml/min

6/1/2023 12:36 PM	01:15:00	5.94 pH	20.86 °C	237.16 µS/cm	0.07 mg/L	7.95 NTU	70.0 mV	7.32 ft	128.00 ml/min
6/1/2023 12:41 PM	01:20:00	5.94 pH	20.78 °C	238.70 µS/cm	0.07 mg/L	7.77 NTU	76.4 mV	7.31 ft	160.00 ml/min
6/1/2023 12:46 PM	01:25:00	5.94 pH	20.93 °C	236.97 µS/cm	0.06 mg/L	7.02 NTU	68.6 mV	7.33 ft	160.00 ml/min
6/1/2023 12:51 PM	01:30:00	5.94 pH	20.93 °C	237.29 µS/cm	0.06 mg/L	6.27 NTU	74.8 mV	7.33 ft	160.00 ml/min
6/1/2023 12:56 PM	01:35:00	5.94 pH	20.94 °C	237.14 µS/cm	0.06 mg/L	7.04 NTU	75.6 mV	7.33 ft	160.00 ml/min
6/1/2023 1:01 PM	01:40:00	5.94 pH	20.95 °C	236.70 µS/cm	0.06 mg/L	6.60 NTU	75.7 mV	7.34 ft	160.00 ml/min
6/1/2023 1:06 PM	01:45:00	5.94 pH	20.92 °C	235.59 µS/cm	0.05 mg/L	7.06 NTU	67.5 mV	7.34 ft	180.00 ml/min
6/1/2023 1:11 PM	01:50:00	5.94 pH	20.93 °C	235.88 µS/cm	0.05 mg/L	6.34 NTU	73.1 mV	7.34 ft	180.00 ml/min
6/1/2023 1:16 PM	01:55:00	5.93 pH	21.03 °C	236.07 µS/cm	0.05 mg/L	7.15 NTU	66.8 mV	7.35 ft	180.00 ml/min
6/1/2023 1:21 PM	02:00:00	5.94 pH	21.05 °C	235.89 µS/cm	0.05 mg/L	5.62 NTU	71.9 mV	7.31 ft	180.00 ml/min
6/1/2023 1:26 PM	02:05:00	5.93 pH	21.02 °C	234.11 µS/cm	0.05 mg/L	4.77 NTU	65.5 mV	7.31 ft	180.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-20B	Sulfide, metals, dissolved cobalt, alkalinity, TDS, chloride,fluoride,sulfate

Low-Flow Test Report:

Test Date / Time: 6/1/2023 9:38:20 AM
Project: Scherer temp well devel sampling
Operator Name: T Johnson

Location Name: SCH-TW-20C **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38 ft** **Total Depth: 48 ft** **Initial Depth to Water: 12.03 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Pre purged 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
6/1/2023 9:38 AM	00:00	5.70 pH	20.38 °C	288.88 µS/cm	1.12 mg/L	22.70 NTU	124.2 mV	12.12 ft	160.00 ml/min
6/1/2023 9:43 AM	05:00	5.70 pH	20.45 °C	290.84 µS/cm	1.42 mg/L	18.90 NTU	118.2 mV	12.18 ft	160.00 ml/min
6/1/2023 9:48 AM	10:00	5.70 pH	20.53 °C	289.76 µS/cm	1.47 mg/L	13.80 NTU	106.4 mV	12.19 ft	160.00 ml/min
6/1/2023 9:53 AM	15:00	5.70 pH	20.61 °C	289.82 µS/cm	1.21 mg/L	10.40 NTU	96.8 mV	12.22 ft	160.00 ml/min
6/1/2023 9:58 AM	20:00	5.69 pH	20.67 °C	289.33 µS/cm	1.13 mg/L	8.36 NTU	90.5 mV	12.23 ft	160.00 ml/min
6/1/2023 10:03 AM	25:00	5.69 pH	20.71 °C	288.28 µS/cm	1.05 mg/L	7.21 NTU	92.0 mV	12.23 ft	160.00 ml/min
6/1/2023 10:08 AM	30:00	5.69 pH	20.72 °C	288.62 µS/cm	0.94 mg/L	6.99 NTU	89.2 mV	12.23 ft	160.00 ml/min
6/1/2023 10:13 AM	35:00	5.69 pH	20.77 °C	289.07 µS/cm	0.89 mg/L	5.86 NTU	84.3 mV	12.21 ft	160.00 ml/min
6/1/2023 10:18 AM	40:00	5.69 pH	20.84 °C	289.20 µS/cm	0.88 mg/L	5.20 NTU	79.4 mV	12.21 ft	160.00 ml/min
6/1/2023 10:23 AM	45:00	5.69 pH	20.93 °C	288.53 µS/cm	0.84 mg/L	5.07 NTU	67.2 mV	12.23 ft	160.00 ml/min
6/1/2023 10:28 AM	50:00	5.69 pH	20.93 °C	288.87 µS/cm	0.79 mg/L	4.11 NTU	72.1 mV	12.24 ft	160.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-20C	Sulfide, metals, dissolved cobalt, alkalinity, TDS, chloride, fluoride, sulfate

Low-Flow Test Report:

Test Date / Time: 6/1/2023 9:18:13 AM
Project: Plant Scherer
Operator Name: M. Mann

Location Name: SCH-TW-20D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36 ft** **Total Depth: 46 ft** **Initial Depth to Water: 9.31 ft**	**Pump Type: Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 47525 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 350 ml/min** **Final Draw Down: 2.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
6/1/2023 9:18 AM	00:00	6.15 pH	21.68 °C	0.37 mS/cm	5.88 mg/L	17.50 NTU	148.6 mV	9.31 ft	150.00 ml/min
6/1/2023 9:23 AM	05:00	5.47 pH	20.57 °C	0.37 mS/cm	0.47 mg/L	253.00 NTU	27.4 mV	9.71 ft	150.00 ml/min
6/1/2023 9:28 AM	10:00	5.42 pH	20.70 °C	0.37 mS/cm	0.31 mg/L	129.00 NTU	17.5 mV	10.29 ft	300.00 ml/min
6/1/2023 9:33 AM	15:00	5.38 pH	20.89 °C	0.37 mS/cm	0.10 mg/L	40.80 NTU	25.4 mV	10.82 ft	300.00 ml/min
6/1/2023 9:38 AM	20:00	5.36 pH	20.92 °C	0.37 mS/cm	0.08 mg/L	29.70 NTU	28.1 mV	10.95 ft	300.00 ml/min
6/1/2023 9:43 AM	25:00	5.35 pH	20.97 °C	0.37 mS/cm	0.06 mg/L	23.50 NTU	29.1 mV	11.14 ft	300.00 ml/min
6/1/2023 9:48 AM	30:00	5.35 pH	20.95 °C	0.37 mS/cm	0.07 mg/L	24.80 NTU	26.4 mV	10.78 ft	300.00 ml/min
6/1/2023 9:53 AM	35:00	5.35 pH	20.96 °C	0.37 mS/cm	0.07 mg/L	22.40 NTU	28.0 mV	10.48 ft	175.00 ml/min
6/1/2023 9:58 AM	40:00	5.35 pH	20.95 °C	0.37 mS/cm	0.07 mg/L	23.90 NTU	27.4 mV	10.00 ft	175.00 ml/min
6/1/2023 10:03 AM	45:00	5.33 pH	20.90 °C	0.37 mS/cm	0.06 mg/L	24.50 NTU	27.9 mV	10.02 ft	175.00 ml/min
6/1/2023 10:08 AM	50:00	5.35 pH	21.01 °C	0.37 mS/cm	0.07 mg/L	22.90 NTU	31.2 mV	10.00 ft	175.00 ml/min
6/1/2023 10:13 AM	55:00	5.35 pH	21.01 °C	0.37 mS/cm	0.06 mg/L	22.40 NTU	30.7 mV	10.00 ft	175.00 ml/min
6/1/2023 10:18 AM	01:00:00	5.34 pH	21.10 °C	0.36 mS/cm	0.06 mg/L	26.90 NTU	35.0 mV	10.94 ft	400.00 ml/min

6/1/2023 10:23 AM	01:05:00	5.34 pH	21.19 °C	0.36 mS/cm	0.04 mg/L	15.20 NTU	31.3 mV	11.22 ft	400.00 ml/min
6/1/2023 10:28 AM	01:10:00	5.32 pH	21.19 °C	0.36 mS/cm	0.03 mg/L	13.80 NTU	28.6 mV	11.41 ft	400.00 ml/min
6/1/2023 10:33 AM	01:15:00	5.32 pH	21.24 °C	0.36 mS/cm	0.03 mg/L	10.60 NTU	29.1 mV	11.53 ft	400.00 ml/min
6/1/2023 10:38 AM	01:20:00	5.32 pH	21.36 °C	0.36 mS/cm	0.02 mg/L	9.60 NTU	28.5 mV	11.56 ft	400.00 ml/min
6/1/2023 10:43 AM	01:25:00	5.32 pH	21.35 °C	0.36 mS/cm	0.02 mg/L	8.48 NTU	29.7 mV	11.58 ft	400.00 ml/min
6/1/2023 10:48 AM	01:30:00	5.31 pH	21.44 °C	0.36 mS/cm	0.02 mg/L	8.74 NTU	30.3 mV	11.66 ft	400.00 ml/min
6/1/2023 10:53 AM	01:35:00	5.31 pH	21.77 °C	0.36 mS/cm	0.03 mg/L	9.70 NTU	30.6 mV	11.28 ft	230.00 ml/min
6/1/2023 10:58 AM	01:40:00	5.31 pH	21.55 °C	0.36 mS/cm	0.02 mg/L	7.64 NTU	29.2 mV	11.34 ft	350.00 ml/min
6/1/2023 11:03 AM	01:45:00	5.32 pH	21.53 °C	0.36 mS/cm	0.03 mg/L	7.70 NTU	31.8 mV	11.48 ft	350.00 ml/min
6/1/2023 11:08 AM	01:50:00	5.32 pH	21.42 °C	0.36 mS/cm	0.02 mg/L	7.35 NTU	29.8 mV	11.62 ft	350.00 ml/min
6/1/2023 11:13 AM	01:55:00	5.30 pH	21.58 °C	0.36 mS/cm	0.04 mg/L	8.81 NTU	25.2 mV	10.60 ft	150.00 ml/min
6/1/2023 11:18 AM	02:00:00	5.31 pH	21.94 °C	0.36 mS/cm	0.04 mg/L	7.90 NTU	26.1 mV	10.40 ft	150.00 ml/min
6/1/2023 11:23 AM	02:05:00	5.32 pH	21.80 °C	0.36 mS/cm	0.05 mg/L	65.00 NTU	27.0 mV	11.35 ft	350.00 ml/min
6/1/2023 11:28 AM	02:10:00	5.33 pH	21.58 °C	0.36 mS/cm	0.03 mg/L	29.30 NTU	28.4 mV	11.42 ft	350.00 ml/min
6/1/2023 11:33 AM	02:15:00	5.32 pH	21.64 °C	0.36 mS/cm	0.02 mg/L	12.90 NTU	20.4 mV	11.62 ft	350.00 ml/min
6/1/2023 11:38 AM	02:20:00	5.31 pH	21.57 °C	0.36 mS/cm	0.02 mg/L	9.48 NTU	17.9 mV	11.70 ft	350.00 ml/min
6/1/2023 11:43 AM	02:25:00	5.31 pH	21.60 °C	0.36 mS/cm	0.02 mg/L	8.49 NTU	24.0 mV	11.85 ft	350.00 ml/min
6/1/2023 11:48 AM	02:30:00	5.31 pH	21.57 °C	0.36 mS/cm	0.02 mg/L	6.16 NTU	25.2 mV	11.78 ft	350.00 ml/min
6/1/2023 11:53 AM	02:35:00	5.30 pH	21.58 °C	0.36 mS/cm	0.02 mg/L	5.73 NTU	25.0 mV	11.79 ft	350.00 ml/min
6/1/2023 11:58 AM	02:40:00	5.31 pH	21.46 °C	0.36 mS/cm	0.02 mg/L	4.83 NTU	26.8 mV	11.85 ft	350.00 ml/min

Samples

Sample ID:	Description:
SCH-TW-20D	

Appendix A
Instrument Calibration Forms

Daily Calibration Log

Project: Plant Scherer
Field Staff: Taylor Johnson

Instrument Calibration

Date: 5/22/23 **Time:** 10:44

Parameter	Units	Standard	AquaTROLL SN 850751	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.8			
Conductivity	us/cm	4490	~~4490~~ 4,125			
pH	S.U.	4.00	4.00			
pH	S.U.	7.00	6.99			
pH	S.U.	10.00	10.36			
ORP	mV	228.00	227.1			

Turbidity	Units	Standard	Hach SN 22090D000086	Hach SN _____	Hach SN _____	Hach SN _____
	NTU	20	21.0			
	NTU	100	103			
	NTU	800	803			

Date: 5/23/23 **Time:** 9:13 C. Mikiles

Parameter	Units	Standard	AquaTROLL SN 850751	AquaTROLL SN 98712	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.95	100.74% 9.12 mg/L		
Conductivity	us/cm	4490	4016.2	4356.9		
pH	S.U.	4.00	4.08	4.01		
pH	S.U.	7.00	7.02	7.01		
pH	S.U.	10.00	10.05	10.07		
ORP	mV	228.00	235.3	235.3		

Turbidity	Units	Standard	Hach SN 22090D000086	Hach SN 22090D000337	Hach SN _____	Hach SN _____
	NTU	10	9.89	9.59		
	NTU	20	20.1	21.9		
	NTU	100	99.7	101		
		800	802	785		

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

May 2020

Daily Calibration Log

20139484

Project: Plant Scherer
Field Staff: Taylor Johnson

Instrument Calibration

Date: 5/24/23 **Time:** 7:30

Parameter	Units	Standard	AquaTROLL SN 850751	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	100.14			
Conductivity	us/cm	4490	4573.7			
pH	S.U.	4.00	3.98			
pH	S.U.	7.00	6.99			
pH	S.U.	10.00	10.04			
ORP	mV	228.00	233.3			

	Units	Standard	Hach SN 22090D000086	Hach SN	Hach SN	Hach SN
Turbidity	NTU	~~0.0~~ 10	10.7			
	NTU	~~1.0~~ 20	19.8			
	NTU	~~10.0~~ 100	98.8			
		800	804			

Date: 5/25/23 **Time:** 7:57 5/26/23 7:55

Parameter	Units	Standard	AquaTROLL SN 850751	AquaTROLL SN _____	AquaTROLL SN 850751	AquaTROLL SN _____
DO	% saturation	100	~~233.2~~ FS	100.5	102.82	
Conductivity	us/cm	4490	4465.8		4523.9	
pH	S.U.	4.00	4.01		4.00	
pH	S.U.	7.00	7.03		7.01	
pH	S.U.	10.00	10.05		10.02	
ORP	mV	228.00	233.2		231.5	

	Units	Standard	Hach SN 22090D000086	Hach SN _____	Hach SN 22090D000086	Hach SN _____
Turbidity	NTU	~~0.0~~ 10	10.4		10.2	
	NTU	~~1.0~~ 20	19.4		20.3	
	NTU	~~10.0~~ 100	99.5		100	
		800	794		807	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Daily Calibration Log

Project: Plant Scherer
Field Staff: Taylor Johnson

Instrument Calibration

Date: 5/30/23 **Time:** 926

Parameter	Units	Standard	AquaTROLL SN 850751	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	98.2			
Conductivity	us/cm	4490	4527.5			
pH	S.U.	4.00	4.20			
pH	S.U.	7.00	7.17			
pH	S.U.	10.00	10.08			
ORP	mV	228.00	230.4			

Turbidity	Units	Standard	Hach SN 22090000589	Hach SN _____	Hach SN _____	Hach SN _____
	NTU	10	9.82			
	NTU	20	19.3			
	NTU	100 800	101 813			

Date: 5/31/23 **Time:** 757

Parameter	Units	Standard	AquaTROLL SN 850751	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	100.78			
Conductivity	us/cm	4490	4695.6			
pH	S.U.	4.00	3.88			
pH	S.U.	7.00	6.93			
pH	S.U.	10.00	9.96			
ORP	mV	228.00	231.7			

Turbidity	Units	Standard	Hach SN 22090000589	Hach SN _____	Hach SN _____	Hach SN _____
	NTU	10	9.7			
	NTU	20	20.1			
	NTU	100 800	100 809			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Daily Calibration Log

Project: Plant Scherer
Field Staff: Taylor Jonnson

Instrument Calibration

Date: 6/1/23 **Time:** 810

Parameter	Units	Standard	AquaTROLL SN 850751	AquaTROLL SN ____	AquaTROLL SN ____	AquaTROLL SN ____
DO	% saturation	100	99.13			
Conductivity	us/cm	4490	4606.3			
pH	S.U.	4.00	4.04			
pH	S.U.	7.00	6.98			
pH	S.U.	10.00	10.08			
ORP	mV	228.00	230.4			

Turbidity	Units	Standard	Hach SN 22490D0008	Hach SN ____	Hach SN ____	Hach SN ____
	NTU	~~0.0~~ 10	9.93			
	NTU	~~1.0~~ 20	19.7			
	NTU	~~10.0~~ 100	98.1			
		800	800			

Date: **Time:**

Parameter	Units	Standard	AquaTROLL SN ____	AquaTROLL SN ____	AquaTROLL SN ____	AquaTROLL SN ____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

Turbidity	Units	Standard	Hach SN ____	Hach SN ____	Hach SN ____	Hach SN ____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

May 2020

Daily Calibration Log

20139484

Project: Plant Scherer
Field Staff: MARK MANN

Instrument Calibration

Date: 05/30/23 **Time:** 0925

Parameter	Units	Standard	AquaTROLL SN 850729	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	103.55			
Conductivity	us/cm	4490	4337.0			
pH	S.U.	4.00	4.04			
pH	S.U.	7.00	7.00			
pH	S.U.	10.00	9.90			
ORP	mV	228.00	225.9			

Turbidity	Units	Standard	Hach SN 22090D00086	Hach SN _____	Hach SN _____	Hach SN _____
	10 NTU	10	10.1			
	NTU	20	20.0			
	NTU	100	100			
		800	793			

Date: 05/31/23 **Time:** 0755

Parameter	Units	Standard	AquaTROLL SN 850729	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	97.06			
Conductivity	us/cm	4490	5076.9			
pH	S.U.	4.00	3.94			
pH	S.U.	7.00	7.00			
pH	S.U.	10.00	9.99			
ORP	mV	228.00	226.4			

Turbidity	Units	Standard	Hach SN 22090D00086	Hach SN _____	Hach SN _____	Hach SN _____
	NTU	20	19.9			
	NTU	100	99.2			
	NTU	800	796			
		10	9.69			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Project: Plant Scherer
Field Staff: MARK MANN

Instrument Calibration

Date: 06/01/23 **Time:** 0830

Parameter	Units	Standard	AquaTROLL SN 850729	AquaTROLL SN	AquaTROLL SN	AquaTROLL SN
DO	% saturation	100	100.23			
Conductivity	us/cm	4490	4071.3			
pH	S.U.	4.00	4.01			
pH	S.U.	7.00	6.97			
pH	S.U.	10.00	10.00			
ORP	mV	228.00	234.0			

	Units	Standard	Hach SN 22090D000086	Hach SN	Hach SN	Hach SN
Turbidity	NTU	10 ~~0.0~~	10.2			
	NTU	20 ~~1.0~~	19.7			
	NTU	100 ~~10.0~~	98.8			
		800	800			

Date: **Time:**

Parameter	Units	Standard	AquaTROLL SN	AquaTROLL SN	AquaTROLL SN	AquaTROLL SN
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

	Units	Standard	Hach SN	Hach SN	Hach SN	Hach SN
Turbidity	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Daily Calibration Log

Project: Plant Scherer
Field Staff: Connor Mikilitus

Instrument Calibration

Date: 5/22/2023 **Time:** 1045

Parameter	Units	Standard	AquaTROLL SN 980712	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	99.92% 8.47 mg/L			
Conductivity	us/cm	4490	4313.7			
pH	S.U.	4.00	3.96			
pH	S.U.	7.00	6.92			
pH	S.U.	10.00	10.39			
ORP	mV	228.00	227.0			

	Units	Standard	Hach SN 220900000337	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	10	~~10.03~~ 10.3			
	NTU	20	19.5			
	NTU	100	99.7			
		800	789			

Date: 5/24/2023 **Time:** 755

Parameter	Units	Standard	AquaTROLL SN 980712	AquaTROLL SN _____	AquaTROLL SN _____	AquaTROLL SN _____
DO	% saturation	100	100.30			
Conductivity	us/cm	4490	4521.4			
pH	S.U.	4.00	4.02			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	10.02			
ORP	mV	228.00	222.1			

	Units	Standard	Hach SN 220900000337	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	10	9.79			
	NTU	20	19.9			
	NTU	100	116			
		800	888			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

GOLDER

Daily Calibration Log

Project: Plant Scherer
Field Staff: Connor Mikilitus

Instrument Calibration

Date: 5/25/23 **Time:** 800

Parameter	Units	Standard	AquaTROLL SN 980712	AquaTROLL SN	AquaTROLL SN	AquaTROLL SN
DO	% saturation	100	101.35			
Conductivity	us/cm	4490	4530.6			
pH	S.U.	4.00	4.0			
pH	S.U.	7.00	7.1			
pH	S.U.	10.00	10.5			
ORP	mV	228.00	229.4			

	Units	Standard	Hach SN 22090D000337	Hach SN	Hach SN	Hach SN
Turbidity	NTU	~~0.0~~ 10	9.73			
	NTU	~~1.0~~ 20	18.3			
	NTU	~~10.0~~ 100	99.3			
		800	853			

Date: 5/26/2023 **Time:** 740

Parameter	Units	Standard	AquaTROLL SN 980712	AquaTROLL SN	AquaTROLL SN	AquaTROLL SN
DO	% saturation	100	99.70%			
Conductivity	us/cm	4490	4438.9			
pH	S.U.	4.00	4.02			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	10.04			
ORP	mV	228.00	230.7			

	Units	Standard	Hach SN 22090D000337	Hach SN	Hach SN	Hach SN
Turbidity	NTU	~~0.0~~ 10	9.46			
	NTU	~~1.0~~ 20	19.9			
	NTU	~~10.0~~ 100	98.7			
		800	759			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Daily Calibration Log

Project: Plant Scherer
Field Staff: Te'Erika Eason

Instrument Calibration

Date:			5/22/23	5/23/23	5/24/23	5/25/23
Time:			1334	0756	0732	0810
Parameter	**Units**	**Standard**	**AquaTROLL SN 85074**	**AquaTROLL SN 85074**	**AquaTROLL SN 85074**	**AquaTROLL SN 85074**
DO	% saturation	100	102.69	98.42	99.70	101.56
Conductivity	us/cm	4490	4474.0	4385.6	4074.4	4129.5
pH	S.U.	4.00	3.99	4.03	4.00	4.04
pH	S.U.	7.00	7.01	7.01	6.97	7.04
pH	S.U.	10.00	10.47	10.06	10.02	10.04
ORP	mV	228.00	282.9	232.2	227.2	225.7

Turbidity	**Units**	**Standard**	**Hach SN** 22070000089	**Hach SN** 22090000089	**Hach SN** 22070000089	**Hach SN** 22090000089
	NTU	10	9.68	9.89	10.1	9.92
	NTU	100	99.3	99.1	99.2	98.7
	NTU	800	793	795	805	815

Date:	5/26/23		**Time:** 0757			
Parameter	**Units**	**Standard**	**AquaTROLL SN 85074**	**AquaTROLL SN** _____	**AquaTROLL SN** _____	**AquaTROLL SN** _____
DO	% saturation	100	99.84			
Conductivity	us/cm	4490	4501.1			
pH	S.U.	4.00	4.01			
pH	S.U.	7.00	6.98			
pH	S.U.	10.00	10.10			
ORP	mV	228.00	233.9			

Turbidity	**Units**	**Standard**	**Hach SN** 22090000089	**Hach SN** _____	**Hach SN** _____	**Hach SN** _____
	NTU	20	20.6			
	NTU	100	98.6			
	NTU	800	800			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

GOLDER

Appendix B
Groundwater Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 6/15/2023 11:00:49 AM Revision 1

JOB DESCRIPTION

CCR - Plant Scherer Temporary Wells

JOB NUMBER

680-235553-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
6/15/2023 11:00:49 AM
Revision 1

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-235553-1
Project/Site: CCR - Plant Scherer Temporary Wells

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-235553-1
Project/Site: CCR - Plant Scherer Temporary Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-235553-1	SCH-TW-18A	Water	05/26/23 11:36	05/27/23 11:10
680-235553-2	SCH-TW-18C	Water	05/25/23 13:28	05/27/23 11:10
680-235553-3	SCH-AP1-FD-1	Water	05/25/23 00:00	05/27/23 11:10
680-235553-4	SCH-AP1-FB-1	Water	05/26/23 13:36	05/27/23 11:10

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235553-1

Job ID: 680-235553-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-235553-1

Revision 1
The report being provided is a revision of the original report sent on 6/12/2023. The report (revision 1) is being revised in order to correct Reporting Limits for Total & Dissolved metals to match historical levels reported for this site.

Receipt
The samples were received on 5/27/2023 11:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C

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

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

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

Client Sample ID: SCH-TW-18A

Lab Sample ID: 680-235553-1

Date Collected: 05/26/23 11:36

Matrix: Water

Date Received: 05/27/23 11:10

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.7**		0.50	0.20	mg/L			06/03/23 15:40	1
Fluoride	<0.040		0.10	0.040	mg/L			06/03/23 15:40	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**780**		5.0	2.0	mg/L			06/04/23 15:55	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**7.7**		0.80	0.22	mg/L		05/30/23 07:03	05/31/23 16:33	10
Calcium	**45**		0.50	0.14	mg/L		05/30/23 07:03	05/31/23 01:08	1
Cobalt	**0.0068**		0.0025	0.00022	mg/L		05/30/23 07:03	05/31/23 01:08	1
Iron	**0.012**	**J**	0.10	0.012	mg/L		05/30/23 07:03	05/31/23 01:08	1
Magnesium	**22**		5.0	0.23	mg/L		05/30/23 07:03	05/31/23 16:33	10
Manganese	**0.32**		0.0050	0.0022	mg/L		05/30/23 07:03	05/31/23 01:08	1
Potassium	**2.7**		0.50	0.044	mg/L		05/30/23 07:03	05/31/23 01:08	1
Sodium	**350**	**B**	5.0	2.0	mg/L		05/30/23 07:03	05/31/23 16:33	10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.0074**		0.0025	0.00022	mg/L		05/30/23 07:03	05/31/23 01:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**2.6**	**J**	5.0	2.2	mg/L			05/31/23 19:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/31/23 19:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/31/23 19:13	1
Total Dissolved Solids (SM 2540C-2011)	**1100**		20	20	mg/L			05/31/23 13:02	1
Sulfide (SW846 9034)	<10		10	10	mg/L		05/30/23 08:44	05/30/23 12:40	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**5.28**				SU			05/26/23 11:36	1
Ferrous Iron	**0.0**				mg/L			05/26/23 11:36	1

Client Sample ID: SCH-TW-18C

Lab Sample ID: 680-235553-2

Date Collected: 05/25/23 13:28

Matrix: Water

Date Received: 05/27/23 11:10

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.9**		0.50	0.20	mg/L			06/03/23 20:44	1
Fluoride	**0.052**	**J**	0.10	0.040	mg/L			06/03/23 20:44	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**790**		5.0	2.0	mg/L			06/04/23 16:07	5

Client Sample ID: SCH-TW-18C
Lab Sample ID: 680-235553-2
Date Collected: 05/25/23 13:28
Matrix: Water
Date Received: 05/27/23 11:10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.8		0.80	0.22	mg/L		05/30/23 07:03	05/31/23 16:37	10
Calcium	71		0.50	0.14	mg/L		05/30/23 07:03	05/31/23 01:12	1
Cobalt	0.0031		0.0025	0.00022	mg/L		05/30/23 07:03	05/31/23 01:12	1
Iron	0.023	J	0.10	0.012	mg/L		05/30/23 07:03	05/31/23 01:12	1
Magnesium	34		5.0	0.23	mg/L		05/30/23 07:03	05/31/23 16:37	10
Manganese	0.33		0.0050	0.0022	mg/L		05/30/23 07:03	05/31/23 01:12	1
Potassium	3.2		0.50	0.044	mg/L		05/30/23 07:03	05/31/23 01:12	1
Sodium	300	B	5.0	2.0	mg/L		05/30/23 07:03	05/31/23 16:37	10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.0032		0.0025	0.00022	mg/L		05/30/23 07:03	05/31/23 01:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	3.8	J	5.0	2.2	mg/L			05/31/23 19:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/31/23 19:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/31/23 19:30	1
Total Dissolved Solids (SM 2540C-2011)	1200		20	20	mg/L			05/31/23 13:02	1
Sulfide (SW846 9034)	<10		10	10	mg/L		05/30/23 08:44	05/30/23 12:40	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.85				SU			05/25/23 13:28	1
Ferrous Iron	0.0				mg/L			05/25/23 13:28	1

Client Sample ID: SCH-AP1-FD-1
Lab Sample ID: 680-235553-3
Date Collected: 05/25/23 00:00
Matrix: Water
Date Received: 05/27/23 11:10

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		0.50	0.20	mg/L			06/03/23 20:56	1
Fluoride	0.052	J	0.10	0.040	mg/L			06/03/23 20:56	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	790		5.0	2.0	mg/L			06/04/23 16:20	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.9		0.80	0.22	mg/L		05/30/23 07:03	05/31/23 16:41	10
Calcium	73		0.50	0.14	mg/L		05/30/23 07:03	05/31/23 01:16	1
Cobalt	0.0034		0.0025	0.00022	mg/L		05/30/23 07:03	05/31/23 01:16	1
Iron	0.026	J	0.10	0.012	mg/L		05/30/23 07:03	05/31/23 01:16	1
Magnesium	34		5.0	0.23	mg/L		05/30/23 07:03	05/31/23 16:41	10
Manganese	0.35		0.0050	0.0022	mg/L		05/30/23 07:03	05/31/23 01:16	1

Client Sample ID: SCH-AP1-FD-1
Lab Sample ID: 680-235553-3
Date Collected: 05/25/23 00:00
Matrix: Water
Date Received: 05/27/23 11:10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**3.3**		0.50	0.044	mg/L		05/30/23 07:03	05/31/23 01:16	1
Sodium	**300**	**B**	5.0	2.0	mg/L		05/30/23 07:03	05/31/23 16:41	10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.0031**		0.0025	0.00022	mg/L		05/30/23 07:03	05/31/23 01:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**7.8**		5.0	2.2	mg/L			05/31/23 19:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**7.8**		5.0	5.0	mg/L			05/31/23 19:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/31/23 19:42	1
Total Dissolved Solids (SM 2540C-2011)	**1200**		20	20	mg/L			05/31/23 13:02	1
Sulfide (SW846 9034)	<10		10	10	mg/L		05/30/23 08:44	05/30/23 12:40	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Client Sample ID: SCH-AP1-FB-1
Lab Sample ID: 680-235553-4
Date Collected: 05/26/23 13:36
Matrix: Water
Date Received: 05/27/23 11:10

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/03/23 21:09	1
Fluoride	<0.040		0.10	0.040	mg/L			06/03/23 21:09	1
Sulfate	<0.40		1.0	0.40	mg/L			06/03/23 21:09	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		05/30/23 07:03	05/31/23 16:45	1
Calcium	<0.14		0.50	0.14	mg/L		05/30/23 07:03	05/31/23 01:28	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		05/30/23 07:03	05/31/23 01:28	1
Iron	<0.012		0.10	0.012	mg/L		05/30/23 07:03	05/31/23 01:28	1
Magnesium	**0.024**	**J**	0.50	0.023	mg/L		05/30/23 07:03	05/31/23 16:45	1
Manganese	<0.0022		0.0050	0.0022	mg/L		05/30/23 07:03	05/31/23 01:28	1
Potassium	<0.044		0.50	0.044	mg/L		05/30/23 07:03	05/31/23 01:28	1
Sodium	**1.1**	**B**	0.50	0.20	mg/L		05/30/23 07:03	05/31/23 16:45	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/30/23 07:51	05/31/23 02:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/31/23 19:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/31/23 19:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/31/23 19:35	1

Client: Southern Company
Job ID: 680-235553-1
Project/Site: CCR - Plant Scherer Temporary Wells

Client Sample ID: SCH-AP1-FB-1
Lab Sample ID: 680-235553-4
Date Collected: 05/26/23 13:36
Matrix: Water
Date Received: 05/27/23 11:10

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<5.0		5.0	5.0	mg/L			05/31/23 13:02	1
Sulfide (SW846 9034)	<10		10	10	mg/L		05/30/23 08:44	05/30/23 12:40	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-781778/2
Matrix: Water
Analysis Batch: 781778

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/03/23 10:09	1
Fluoride	<0.040		0.10	0.040	mg/L			06/03/23 10:09	1
Sulfate	<0.40		1.0	0.40	mg/L			06/03/23 10:09	1

Lab Sample ID: LCS 680-781778/4
Matrix: Water
Analysis Batch: 781778

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.42		mg/L		94	90 - 110
Fluoride	2.00	1.96		mg/L		98	90 - 110
Sulfate	10.0	9.53		mg/L		95	90 - 110

Lab Sample ID: LCSD 680-781778/5
Matrix: Water
Analysis Batch: 781778

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.33		mg/L		93	90 - 110	1	15
Fluoride	2.00	1.95		mg/L		97	90 - 110	1	15
Sulfate	10.0	9.24		mg/L		92	90 - 110	3	15

Lab Sample ID: 680-235497-F-11 MS
Matrix: Water
Analysis Batch: 781778

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	18		10.0	27.2		mg/L		96	80 - 120
Fluoride	0.55		2.00	2.69		mg/L		107	80 - 120
Sulfate	14		10.0	23.3		mg/L		95	80 - 120

Lab Sample ID: 680-235497-F-11 MSD
Matrix: Water
Analysis Batch: 781778

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	18		10.0	27.0		mg/L		94	80 - 120	1	15
Fluoride	0.55		2.00	2.66		mg/L		106	80 - 120	1	15
Sulfate	14		10.0	23.6		mg/L		99	80 - 120	1	15

Lab Sample ID: MB 680-781779/33
Matrix: Water
Analysis Batch: 781779

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/03/23 16:43	1
Fluoride	<0.040		0.10	0.040	mg/L			06/03/23 16:43	1
Sulfate	<0.40		1.0	0.40	mg/L			06/03/23 16:43	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-781779/34
Matrix: Water
Analysis Batch: 781779

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.58		mg/L		96	90 - 110		
Fluoride			2.00	2.08		mg/L		104	90 - 110		
Sulfate			10.0	9.88		mg/L		99	90 - 110		

Lab Sample ID: LCSD 680-781779/35
Matrix: Water
Analysis Batch: 781779

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.58		mg/L		96	90 - 110	0	15
Fluoride			2.00	2.08		mg/L		104	90 - 110	0	15
Sulfate			10.0	9.68		mg/L		97	90 - 110	2	15

Lab Sample ID: 680-235556-F-1 MS
Matrix: Water
Analysis Batch: 781779

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	120		10.0	127	4	mg/L		90	80 - 120		
Fluoride	0.070	J	2.00	2.08		mg/L		101	80 - 120		
Sulfate	10		10.0	19.7		mg/L		97	80 - 120		

Lab Sample ID: 680-235556-F-1 MSD
Matrix: Water
Analysis Batch: 781779

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		10.0	128	4	mg/L		99	80 - 120	1	15
Fluoride	0.070	J	2.00	2.08		mg/L		101	80 - 120	0	15
Sulfate	10		10.0	19.9		mg/L		99	80 - 120	1	15

Lab Sample ID: MB 680-781810/2
Matrix: Water
Analysis Batch: 781810

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/04/23 09:52	1
Fluoride	<0.040		0.10	0.040	mg/L			06/04/23 09:52	1
Sulfate	<0.40		1.0	0.40	mg/L			06/04/23 09:52	1

Lab Sample ID: LCS 680-781810/4
Matrix: Water
Analysis Batch: 781810

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.51		mg/L		95	90 - 110		
Fluoride			2.00	1.96		mg/L		98	90 - 110		
Sulfate			10.0	9.83		mg/L		98	90 - 110		

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-781810/5
Matrix: Water
Analysis Batch: 781810

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.47		mg/L		95	90 - 110	0	15
Fluoride			2.00	1.97		mg/L		99	90 - 110	1	15
Sulfate			10.0	9.86		mg/L		99	90 - 110	0	15

Lab Sample ID: 680-235718-N-6 MS
Matrix: Water
Analysis Batch: 781810

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5.4		10.0	15.1		mg/L		98	80 - 120		
Fluoride	0.097	J	2.00	2.18		mg/L		104	80 - 120		
Sulfate	7.5		10.0	16.9		mg/L		94	80 - 120		

Lab Sample ID: 680-235718-N-6 MSD
Matrix: Water
Analysis Batch: 781810

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.4		10.0	14.7		mg/L		93	80 - 120	3	15
Fluoride	0.097	J	2.00	2.08		mg/L		99	80 - 120	4	15
Sulfate	7.5		10.0	16.8		mg/L		93	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-780929/1-A
Matrix: Water
Analysis Batch: 781125

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		05/30/23 07:03	05/30/23 23:51	1
Calcium	<0.14		0.50	0.14	mg/L		05/30/23 07:03	05/30/23 23:51	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		05/30/23 07:03	05/30/23 23:51	1
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/30/23 07:03	05/30/23 23:51	1
Iron	<0.012		0.10	0.012	mg/L		05/30/23 07:03	05/30/23 23:51	1
Manganese	<0.0022		0.0050	0.0022	mg/L		05/30/23 07:03	05/30/23 23:51	1
Potassium	<0.044		0.50	0.044	mg/L		05/30/23 07:03	05/30/23 23:51	1

Lab Sample ID: MB 680-780929/1-A
Matrix: Water
Analysis Batch: 781360

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		05/30/23 07:03	05/31/23 15:56	1
Sodium	0.247	J	0.50	0.20	mg/L		05/30/23 07:03	05/31/23 15:56	1

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

Lab Sample ID: LCS 680-780929/2-A
Matrix: Water
Analysis Batch: 781125

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.209		mg/L		105	80 - 120
Calcium	5.00	5.63		mg/L		113	80 - 120
Cobalt	0.0500	0.0531		mg/L		106	80 - 120
Cobalt, Dissolved	0.0500	0.0531		mg/L		106	80 - 120
Iron	5.00	5.18		mg/L		104	80 - 120
Manganese	0.400	0.426		mg/L		107	80 - 120
Potassium	7.00	7.21		mg/L		103	80 - 120

Lab Sample ID: LCS 680-780929/2-A
Matrix: Water
Analysis Batch: 781360

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.00	4.80		mg/L		96	80 - 120
Sodium	5.00	5.01		mg/L		100	80 - 120

Lab Sample ID: 680-235556-A-1-B MS
Matrix: Water
Analysis Batch: 781125

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<0.022		0.200	0.210		mg/L		105	75 - 125
Calcium	19	F1	5.00	21.0	F1	mg/L		47	75 - 125
Cobalt	0.0092		0.0500	0.0615		mg/L		105	75 - 125
Cobalt, Dissolved	0.0092		0.0500	0.0615		mg/L		105	75 - 125
Iron	26		5.00	27.7	4	mg/L		29	75 - 125
Manganese	1.2		0.400	1.46		mg/L		76	75 - 125
Potassium	2.8		7.00	9.84		mg/L		101	75 - 125

Lab Sample ID: 680-235556-A-1-B MS
Matrix: Water
Analysis Batch: 781360

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	8.5		5.00	13.2		mg/L		94	75 - 125
Sodium	53	B	5.00	57.9	4	mg/L		104	75 - 125

Lab Sample ID: 680-235556-A-1-C MSD
Matrix: Water
Analysis Batch: 781125

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.022		0.200	0.217		mg/L		108	75 - 125	3	20
Calcium	19	F1	5.00	23.6		mg/L		99	75 - 125	12	20
Cobalt	0.0092		0.0500	0.0646		mg/L		111	75 - 125	5	20
Cobalt, Dissolved	0.0092		0.0500	0.0646		mg/L		111	75 - 125	5	20
Iron	26		5.00	31.0	4	mg/L		96	75 - 125	11	20
Manganese	1.2		0.400	1.63		mg/L		120	75 - 125	11	20
Potassium	2.8		7.00	10.5		mg/L		110	75 - 125	6	20

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

Lab Sample ID: 680-235556-A-1-C MSD
Matrix: Water
Analysis Batch: 781360

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 780929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	8.5		5.00	14.2		mg/L		115	75 - 125	8	20
Sodium	53	B	5.00	62.8	4	mg/L		202	75 - 125	8	20

Lab Sample ID: MB 680-780937/1-A
Matrix: Water
Analysis Batch: 781125

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 780937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		05/30/23 07:51	05/31/23 01:53	1

Lab Sample ID: LCS 680-780937/2-A
Matrix: Water
Analysis Batch: 781125

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 780937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Dissolved	0.0500	0.0501		mg/L		100	80 - 120

Lab Sample ID: 680-235553-4 MS
Matrix: Water
Analysis Batch: 781125

Client Sample ID: SCH-AP1-FB-1
Prep Type: Dissolved
Prep Batch: 780937

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Dissolved	<0.00022		0.0500	0.0537		mg/L		107	75 - 125

Lab Sample ID: 680-235553-4 MSD
Matrix: Water
Analysis Batch: 781125

Client Sample ID: SCH-AP1-FB-1
Prep Type: Dissolved
Prep Batch: 780937

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt, Dissolved	<0.00022		0.0500	0.0549		mg/L		110	75 - 125	2	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-781426/4
Matrix: Water
Analysis Batch: 781426

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<2.2		5.0	2.2	mg/L			05/31/23 18:50	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			05/31/23 18:50	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			05/31/23 18:50	1

Lab Sample ID: LCS 680-781426/6
Matrix: Water
Analysis Batch: 781426

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	250	245		mg/L		98	90 - 112

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 680-781426/31
Matrix: Water
Analysis Batch: 781426

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5			250	247		mg/L		99	90 - 112	1	30

Lab Sample ID: 680-235553-1 DU
Matrix: Water
Analysis Batch: 781426

Client Sample ID: SCH-TW-18A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	2.6	J		<2.2		mg/L				NC	30
Bicarbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-781261/1
Matrix: Water
Analysis Batch: 781261

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.0		5.0	5.0	mg/L			05/31/23 13:02	1

Lab Sample ID: LCS 680-781261/2
Matrix: Water
Analysis Batch: 781261

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			2410	2420		mg/L		100	80 - 120		

Lab Sample ID: LCSD 680-781261/3
Matrix: Water
Analysis Batch: 781261

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			2410	2350		mg/L		97	80 - 120	3	25

Lab Sample ID: 680-235553-3 DU
Matrix: Water
Analysis Batch: 781261

Client Sample ID: SCH-AP1-FD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1200			1150		mg/L				0.3	5

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-780971/1-A
Matrix: Water
Analysis Batch: 781052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10	10	mg/L		05/30/23 08:44	05/30/23 12:40	1

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: LCS 680-780971/2-A
Matrix: Water
Analysis Batch: 781052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780971

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			208	137		mg/L		66	50 - 150		

Lab Sample ID: LCSD 680-780971/3-A
Matrix: Water
Analysis Batch: 781052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 780971

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			208	123		mg/L		59	50 - 150	10	50

Lab Sample ID: 680-235422-E-3-B MS
Matrix: Water
Analysis Batch: 781052

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 780971

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<10		208	136		mg/L		65	50 - 150		

Lab Sample ID: 680-235422-E-3-C MSD
Matrix: Water
Analysis Batch: 781052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 780971

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<10		208	105		mg/L		51	50 - 150	25	50

Lab Sample ID: 680-235422-E-10-B DU
Matrix: Water
Analysis Batch: 781052

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 780971

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<10			<10		mg/L				NC	50

HPLC/IC

Analysis Batch: 781778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total/NA	Water	300.0-1993 R2.1	
MB 680-781778/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-781778/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-781778/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-235497-F-11 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-235497-F-11 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 781779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-2	SCH-TW-18C	Total/NA	Water	300.0-1993 R2.1	
680-235553-3	SCH-AP1-FD-1	Total/NA	Water	300.0-1993 R2.1	
680-235553-4	SCH-AP1-FB-1	Total/NA	Water	300.0-1993 R2.1	
MB 680-781779/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-781779/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-781779/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-235556-F-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-235556-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 781810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1 - DL	SCH-TW-18A	Total/NA	Water	300.0-1993 R2.1	
680-235553-2 - DL	SCH-TW-18C	Total/NA	Water	300.0-1993 R2.1	
680-235553-3 - DL	SCH-AP1-FD-1	Total/NA	Water	300.0-1993 R2.1	
MB 680-781810/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-781810/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-781810/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-235718-N-6 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-235718-N-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 780929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Dissolved	Water	3005A	
680-235553-1	SCH-TW-18A	Total Recoverable	Water	3005A	
680-235553-2	SCH-TW-18C	Dissolved	Water	3005A	
680-235553-2	SCH-TW-18C	Total Recoverable	Water	3005A	
680-235553-3	SCH-AP1-FD-1	Dissolved	Water	3005A	
680-235553-3	SCH-AP1-FD-1	Total Recoverable	Water	3005A	
680-235553-4	SCH-AP1-FB-1	Total Recoverable	Water	3005A	
MB 680-780929/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-780929/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-235556-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-235556-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 780937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-4	SCH-AP1-FB-1	Dissolved	Water	3005A	
MB 680-780937/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-780937/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-235553-4 MS	SCH-AP1-FB-1	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 780937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-4 MSD	SCH-AP1-FB-1	Dissolved	Water	3005A	

Analysis Batch: 781125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Dissolved	Water	6020B	780929
680-235553-1	SCH-TW-18A	Total Recoverable	Water	6020B	780929
680-235553-2	SCH-TW-18C	Dissolved	Water	6020B	780929
680-235553-2	SCH-TW-18C	Total Recoverable	Water	6020B	780929
680-235553-3	SCH-AP1-FD-1	Dissolved	Water	6020B	780929
680-235553-3	SCH-AP1-FD-1	Total Recoverable	Water	6020B	780929
680-235553-4	SCH-AP1-FB-1	Dissolved	Water	6020B	780937
680-235553-4	SCH-AP1-FB-1	Total Recoverable	Water	6020B	780929
MB 680-780929/1-A	Method Blank	Total Recoverable	Water	6020B	780929
MB 680-780937/1-A	Method Blank	Total Recoverable	Water	6020B	780937
LCS 680-780929/2-A	Lab Control Sample	Total Recoverable	Water	6020B	780929
LCS 680-780937/2-A	Lab Control Sample	Total Recoverable	Water	6020B	780937
680-235553-4 MS	SCH-AP1-FB-1	Dissolved	Water	6020B	780937
680-235553-4 MSD	SCH-AP1-FB-1	Dissolved	Water	6020B	780937
680-235556-A-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	780929
680-235556-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	780929

Analysis Batch: 781360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total Recoverable	Water	6020B	780929
680-235553-2	SCH-TW-18C	Total Recoverable	Water	6020B	780929
680-235553-3	SCH-AP1-FD-1	Total Recoverable	Water	6020B	780929
680-235553-4	SCH-AP1-FB-1	Total Recoverable	Water	6020B	780929
MB 680-780929/1-A	Method Blank	Total Recoverable	Water	6020B	780929
LCS 680-780929/2-A	Lab Control Sample	Total Recoverable	Water	6020B	780929
680-235556-A-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	780929
680-235556-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	780929

General Chemistry

Prep Batch: 780971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total/NA	Water	9030B	
680-235553-2	SCH-TW-18C	Total/NA	Water	9030B	
680-235553-3	SCH-AP1-FD-1	Total/NA	Water	9030B	
680-235553-4	SCH-AP1-FB-1	Total/NA	Water	9030B	
MB 680-780971/1-A	Method Blank	Total/NA	Water	9030B	
LCS 680-780971/2-A	Lab Control Sample	Total/NA	Water	9030B	
LCSD 680-780971/3-A	Lab Control Sample Dup	Total/NA	Water	9030B	
680-235422-E-3-B MS	Matrix Spike	Total/NA	Water	9030B	
680-235422-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	
680-235422-E-10-B DU	Duplicate	Total/NA	Water	9030B	

Analysis Batch: 781052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total/NA	Water	9034	780971
680-235553-2	SCH-TW-18C	Total/NA	Water	9034	780971

General Chemistry (Continued)

Analysis Batch: 781052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-3	SCH-AP1-FD-1	Total/NA	Water	9034	780971
680-235553-4	SCH-AP1-FB-1	Total/NA	Water	9034	780971
MB 680-780971/1-A	Method Blank	Total/NA	Water	9034	780971
LCS 680-780971/2-A	Lab Control Sample	Total/NA	Water	9034	780971
LCSD 680-780971/3-A	Lab Control Sample Dup	Total/NA	Water	9034	780971
680-235422-E-3-B MS	Matrix Spike	Total/NA	Water	9034	780971
680-235422-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	780971
680-235422-E-10-B DU	Duplicate	Total/NA	Water	9034	780971

Analysis Batch: 781261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total/NA	Water	2540C-2011	
680-235553-2	SCH-TW-18C	Total/NA	Water	2540C-2011	
680-235553-3	SCH-AP1-FD-1	Total/NA	Water	2540C-2011	
680-235553-4	SCH-AP1-FB-1	Total/NA	Water	2540C-2011	
MB 680-781261/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-781261/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-781261/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-235553-3 DU	SCH-AP1-FD-1	Total/NA	Water	2540C-2011	

Analysis Batch: 781426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total/NA	Water	2320B-2011	
680-235553-2	SCH-TW-18C	Total/NA	Water	2320B-2011	
680-235553-3	SCH-AP1-FD-1	Total/NA	Water	2320B-2011	
680-235553-4	SCH-AP1-FB-1	Total/NA	Water	2320B-2011	
MB 680-781426/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-781426/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-781426/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-235553-1 DU	SCH-TW-18A	Total/NA	Water	2320B-2011	

Analysis Batch: 781888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total/NA	Water	SM 3500	
680-235553-2	SCH-TW-18C	Total/NA	Water	SM 3500	
680-235553-3	SCH-AP1-FD-1	Total/NA	Water	SM 3500	

Field Service / Mobile Lab

Analysis Batch: 781584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235553-1	SCH-TW-18A	Total/NA	Water	Field Sampling	
680-235553-2	SCH-TW-18C	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235553-1

Client Sample ID: SCH-TW-18A

Lab Sample ID: 680-235553-1

Date Collected: 05/26/23 11:36

Matrix: Water

Date Received: 05/27/23 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781778	06/03/23 15:40	UI	EET SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	781810	06/04/23 15:55	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Dissolved	Analysis	6020B		1			781125	05/31/23 01:32	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781125	05/31/23 01:08	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		10			781360	05/31/23 16:33	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			781426	05/31/23 19:13	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	781261	05/31/23 13:02	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	780971	05/30/23 08:44	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	781052	05/30/23 12:40	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			781584	05/26/23 11:36	T1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-18C

Lab Sample ID: 680-235553-2

Date Collected: 05/25/23 13:28

Matrix: Water

Date Received: 05/27/23 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781779	06/03/23 20:44	UI	EET SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	781810	06/04/23 16:07	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Dissolved	Analysis	6020B		1			781125	05/31/23 01:36	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781125	05/31/23 01:12	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		10			781360	05/31/23 16:37	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			781426	05/31/23 19:30	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235553-1

Client Sample ID: SCH-TW-18C

Lab Sample ID: 680-235553-2
Date Collected: 05/25/23 13:28
Matrix: Water
Date Received: 05/27/23 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	781261	05/31/23 13:02	PG	EET SAV
Total/NA	Prep	9030B			6 mL	6 mL	780971	05/30/23 08:44	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	781052	05/30/23 12:40	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			781584	05/25/23 13:28	T1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FD-1

Lab Sample ID: 680-235553-3
Date Collected: 05/25/23 00:00
Matrix: Water
Date Received: 05/27/23 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781779	06/03/23 20:56	UI	EET SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	781810	06/04/23 16:20	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Dissolved	Analysis	6020B		1			781125	05/31/23 01:40	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781125	05/31/23 01:16	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		10			781360	05/31/23 16:41	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			781426	05/31/23 19:42	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	781261	05/31/23 13:02	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	780971	05/30/23 08:44	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	781052	05/30/23 12:40	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FB-1

Lab Sample ID: 680-235553-4
Date Collected: 05/26/23 13:36
Matrix: Water
Date Received: 05/27/23 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781779	06/03/23 21:09	UI	EET SAV
	Instrument ID: CICK									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235553-1

Client Sample ID: SCH-AP1-FB-1

Date Collected: 05/26/23 13:36
Date Received: 05/27/23 11:10

Lab Sample ID: 680-235553-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	125 mL	780937	05/30/23 07:51	RR	EET SAV
Dissolved	Analysis	6020B		1			781125	05/31/23 02:01	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781125	05/31/23 01:28	BJB	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	780929	05/30/23 07:03	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781360	05/31/23 16:45	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			781426	05/31/23 19:35	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781261	05/31/23 13:02	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	780971	05/30/23 08:44	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	781052	05/30/23 12:40	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-235553-1
Project/Site: CCR - Plant Scherer Temporary Wells

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-23
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	06-30-23
Kentucky (UST)	State	NA	06-30-23
Louisiana	NELAP	30690	06-30-23
Louisiana (All)	NELAP	30690	06-30-23
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wyoming	State	8TMS-L	06-30-23

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235553-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET SAV
SM 3500	Iron, Ferric	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

244- ATLANTA

Client Information	Sampler: Connor Mikilitus	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: Joju Abraham	Phone	E-Mail: David Fuller@et eurofinsus com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone	Lab Project #: (DO NOT REMOVE) 68027798			
Email: JAbraham@southernco com	Lab PO #: GPC82130-0003 / PO Line #1			
Project Name: Project Name CCR - Plant Scherer Temporary Wells	Project #:			
Site	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride, Fluoride, Sulfate	2320B - Alkalinity, Total, Carb/Bicarb	6020B - App III + Co, Fe, Mg, Mn, K, Na	2540C - Solids, Total Dissolved (TDS)	9034 - Sulfide (FILL BOTTLES COMPLETELY)	6020B - Dissolved Cobalt (Field Filtered)	Field Sampling - pH & Ferrous Iron (Fe+2)	3500_Fe+3_D_Cal - Ferric Iron (Calculated)	Total Number of containers	Task_Code SCH-CCR-CA-20230522 Special Instructions/Notes
			Preservation Code				N	N	D	N	CB	D	N	N		
SCH-TW-18A	5/26/23	11 36	G	WG			X	X	X	X	X	X	X	X		pH = 5.28, Fe+2 = 0.0 @ 11:41
SCH-TW-18C	5/25/23	13 28	G	WG			X	X	X	X	X	X	X	X		pH = 5.85, Fe+2 = 0.0 @ 13:33
SCH-AP1-FD-1	5/25/23	--	G	WG			X	X	X	X	X	X	X	X		pH = 5.85, Fe+2 = 0.0 @ 13:33
SCH-AP-1-FB-1	5/26/23	13 36	G	WQ			X	X	X	X	X	X	X	X		

Preservation Codes

A HCL	M Hexane		
B NaOH	N None		
C Zn Acetate	O AsNaO2		
D Nitric Acid	P Na2O4S		
E NaHSO4	Q Na2SO3		
F MeOH	R Na2S2O3		
G Amchlor	S H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K EDTA	W pH 4-5		
L EDA	Y Trizma		
	Z other (specify)		

Other:

680-235553 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements **Task Code: SCH-CCR-CA-20230522**

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		WSP 5/26/23 16:59			5/26/23 16:59	
2		5/26/23 17:00	Eurofins		5/26/23 1110	eurofins
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		23.9

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-235553-1

Login Number: 235553
List Number: 1
Creator: Munro, Caroline

List Source: Eurofins Savannah

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

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JOB DESCRIPTION

CCR - Plant Scherer Temporary Wells

JOB NUMBER

680-235705-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
6/15/2023 11:22:40 AM
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Definitions/Glossary

Client: Southern Company
Job ID: 680-235705-1
Project/Site: CCR - Plant Scherer Temporary Wells

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-235705-1
Project/Site: CCR - Plant Scherer Temporary Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-235705-1	SCH-TW-15A-D	Water	05/31/23 09:35	06/02/23 07:00
680-235705-2	SCH-TW-15A-S	Water	05/31/23 11:21	06/02/23 07:00
680-235705-3	SCH-TW-15B	Water	05/31/23 13:50	06/02/23 07:00
680-235705-4	SCH-TW-15C-D	Water	05/31/23 16:02	06/02/23 07:00
680-235705-5	SCH-TW-15C-S	Water	05/31/23 15:33	06/02/23 07:00
680-235705-6	SCH-TW-18D	Water	05/30/23 14:04	06/02/23 07:00
680-235705-7	SCH-TW-18B	Water	05/30/23 12:56	06/02/23 07:00
680-235705-8	SCH-AP1-FD-2	Water	05/30/23 00:00	06/02/23 07:00
680-235705-9	SCH-AP1-EB-1	Water	05/30/23 16:30	06/02/23 07:00
680-235705-10	SCH-AP1-FB-2	Water	05/31/23 12:00	06/02/23 07:00

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235705-1

Job ID: 680-235705-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-235705-1

Revision 1
The report being provided is a revision of the original report sent on 6/13/2023. The report (revision 1) is being revised in order to correct Reporting Limits for Total & Dissolved metals to match historical levels reported for this site.

Project Manager Comments
Note: The addition of the Dissolved Cobalt analysis was requested for all samples in this submittal, except SCH-TW-15B, per intructions from client via email.

Receipt
The samples were received on 6/2/2023 7:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.5°C, 3.4°C and 3.7°C

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

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

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

Client Sample ID: SCH-TW-15A-D

Lab Sample ID: 680-235705-1

Date Collected: 05/31/23 09:35

Matrix: Water

Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		0.50	0.20	mg/L			06/04/23 19:17	1
Fluoride	<0.040		0.10	0.040	mg/L			06/04/23 19:17	1
Sulfate	130		1.0	0.40	mg/L			06/04/23 19:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.66		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 15:42	1
Calcium	27		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 15:42	1
Cobalt	0.010		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 15:42	1
Iron	0.076	J	0.10	0.012	mg/L		06/05/23 05:43	06/05/23 15:42	1
Magnesium	20		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 15:42	1
Manganese	0.39		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 15:42	1
Potassium	1.2	B	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 15:42	1
Sodium	12		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 15:42	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.0097		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	12		5.0	2.2	mg/L			06/10/23 04:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	12		5.0	5.0	mg/L			06/10/23 04:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/10/23 04:18	1
Total Dissolved Solids (SM 2540C-2011)	240		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	10		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.56				SU			05/31/23 09:35	1
Ferrous Iron	0.3				mg/L			05/31/23 09:35	1

Client Sample ID: SCH-TW-15A-S

Lab Sample ID: 680-235705-2

Date Collected: 05/31/23 11:21

Matrix: Water

Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50	0.20	mg/L			06/04/23 19:30	1
Fluoride	0.43		0.10	0.040	mg/L			06/04/23 19:30	1
Sulfate	220		1.0	0.40	mg/L			06/04/23 19:30	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 15:46	1
Calcium	23		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 15:46	1
Cobalt	0.23		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 15:46	1

Client Sample ID: SCH-TW-15A-S
Lab Sample ID: 680-235705-2
Date Collected: 05/31/23 11:21
Matrix: Water
Date Received: 06/02/23 07:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.026	J	0.10	0.012	mg/L		06/05/23 05:43	06/05/23 15:46	1
Magnesium	14		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 15:46	1
Manganese	3.3		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 15:46	1
Potassium	6.2	B	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 15:46	1
Sodium	59		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 15:46	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.23		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			06/09/23 19:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 19:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 19:51	1
Total Dissolved Solids (SM 2540C-2011)	330		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	22		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.32				SU			05/31/23 11:21	1
Ferrous Iron	0.0				mg/L			05/31/23 11:21	1

Client Sample ID: SCH-TW-15B
Lab Sample ID: 680-235705-3
Date Collected: 05/31/23 13:50
Matrix: Water
Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.9		0.50	0.20	mg/L			06/04/23 19:42	1
Fluoride	0.051	J	0.10	0.040	mg/L			06/04/23 19:42	1
Sulfate	140		1.0	0.40	mg/L			06/04/23 19:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.38		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 15:50	1
Calcium	27		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 15:50	1
Cobalt	0.021		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 15:50	1
Iron	0.10		0.10	0.012	mg/L		06/05/23 05:43	06/05/23 15:50	1
Magnesium	22		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 15:50	1
Manganese	0.57		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 15:50	1
Potassium	1.4	B	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 15:50	1
Sodium	11		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 15:50	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.38		0.080	0.022	mg/L		06/05/23 05:48	06/06/23 10:42	1

Client Sample ID: SCH-TW-15B
Lab Sample ID: 680-235705-3
Date Collected: 05/31/23 13:50
Matrix: Water
Date Received: 06/02/23 07:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	27		0.50	0.14	mg/L		06/05/23 05:48	06/05/23 17:11	1
Cobalt, Dissolved	0.020		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:11	1
Iron, Dissolved	0.019	J	0.10	0.012	mg/L		06/05/23 05:48	06/05/23 17:11	1
Magnesium, Dissolved	21		0.50	0.023	mg/L		06/05/23 05:48	06/05/23 17:11	1
Manganese, Dissolved	0.55		0.0050	0.0022	mg/L		06/05/23 05:48	06/05/23 17:11	1
Potassium, Dissolved	1.4	B	0.50	0.044	mg/L		06/05/23 05:48	06/05/23 17:11	1
Sodium, Dissolved	12		0.50	0.20	mg/L		06/05/23 05:48	06/05/23 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	14		5.0	2.2	mg/L			06/09/23 20:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	14		5.0	5.0	mg/L			06/09/23 20:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 20:19	1
Total Dissolved Solids (SM 2540C-2011)	220		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	<10		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.72				SU			05/31/23 13:50	1
Ferrous Iron	0.0				mg/L			05/31/23 13:50	1

Client Sample ID: SCH-TW-15C-D
Lab Sample ID: 680-235705-4
Date Collected: 05/31/23 16:02
Matrix: Water
Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		0.50	0.20	mg/L			06/04/23 20:20	1
Fluoride	0.058	J	0.10	0.040	mg/L			06/04/23 20:20	1
Sulfate	130		1.0	0.40	mg/L			06/04/23 20:20	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 15:54	1
Calcium	39		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 15:54	1
Cobalt	0.0023	J	0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 15:54	1
Iron	0.026	J	0.10	0.012	mg/L		06/05/23 05:43	06/05/23 15:54	1
Magnesium	22		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 15:54	1
Manganese	0.17		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 15:54	1
Potassium	1.5	B	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 15:54	1
Sodium	7.5		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 15:54	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.0019	J	0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:15	1

Client Sample ID: SCH-TW-15C-D

Lab Sample ID: 680-235705-4

Date Collected: 05/31/23 16:02

Matrix: Water

Date Received: 06/02/23 07:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	36		5.0	2.2	mg/L			06/10/23 04:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	36		5.0	5.0	mg/L			06/10/23 04:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/10/23 04:10	1
Total Dissolved Solids (SM 2540C-2011)	260		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	10		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.16				SU			05/31/23 16:02	1
Ferrous Iron	0.0				mg/L			05/31/23 16:02	1

Client Sample ID: SCH-TW-15C-S

Lab Sample ID: 680-235705-5

Date Collected: 05/31/23 15:33

Matrix: Water

Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		0.50	0.20	mg/L			06/04/23 20:58	1
Fluoride	0.12		0.10	0.040	mg/L			06/04/23 20:58	1
Sulfate	170		1.0	0.40	mg/L			06/04/23 20:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 15:58	1
Calcium	11		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 15:58	1
Cobalt	0.20		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 15:58	1
Iron	0.014	J	0.10	0.012	mg/L		06/05/23 05:43	06/05/23 15:58	1
Magnesium	16		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 15:58	1
Manganese	3.1		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 15:58	1
Potassium	1.6	B	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 15:58	1
Sodium	47		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 15:58	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.20		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			06/09/23 20:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 20:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 20:01	1
Total Dissolved Solids (SM 2540C-2011)	260		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	29		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235705-1

Client Sample ID: SCH-TW-15C-S

Lab Sample ID: 680-235705-5
Date Collected: 05/31/23 15:33
Matrix: Water
Date Received: 06/02/23 07:00

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.49				SU			05/31/23 15:33	1
Ferrous Iron	0.0				mg/L			05/31/23 15:33	1

Client Sample ID: SCH-TW-18D

Lab Sample ID: 680-235705-6
Date Collected: 05/30/23 14:04
Matrix: Water
Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50	0.20	mg/L			06/04/23 21:11	1
Fluoride	0.058	J	0.10	0.040	mg/L			06/04/23 21:11	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	950		10	4.0	mg/L			06/05/23 13:22	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6.4		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 16:10	1
Calcium	94		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 16:10	1
Cobalt	0.0040		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 16:10	1
Iron	0.21		0.10	0.012	mg/L		06/05/23 05:43	06/05/23 16:10	1
Magnesium	60		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 16:10	1
Manganese	0.40		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 16:10	1
Potassium	4.3	B	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 16:10	1
Sodium	270		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 16:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.0033		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	9.2		5.0	2.2	mg/L			06/09/23 20:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	9.2		5.0	5.0	mg/L			06/09/23 20:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 20:26	1
Total Dissolved Solids (SM 2540C-2011)	1400		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	19		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	0.21		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.66				SU			05/30/23 14:04	1
Ferrous Iron	0.0				mg/L			05/30/23 14:04	1

Client Sample ID: SCH-TW-18B

Lab Sample ID: 680-235705-7

Date Collected: 05/30/23 12:56
Matrix: Water
Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.5		0.50	0.20	mg/L			06/04/23 21:24	1
Fluoride	0.58		0.10	0.040	mg/L			06/04/23 21:24	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	490		5.0	2.0	mg/L			06/05/23 13:35	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.6		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 16:14	1
Calcium	65		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 16:14	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 16:14	1
Iron	0.040	J	0.10	0.012	mg/L		06/05/23 05:43	06/05/23 16:14	1
Magnesium	28		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 16:14	1
Manganese	0.40		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 16:14	1
Potassium	1.2	B	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 16:14	1
Sodium	210		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 16:14	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.00087	J	0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	150		5.0	2.2	mg/L			06/09/23 20:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	150		5.0	5.0	mg/L			06/09/23 20:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 20:11	1
Total Dissolved Solids (SM 2540C-2011)	840		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	11		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.95				SU			05/30/23 12:56	1
Ferrous Iron	0.0				mg/L			05/30/23 12:56	1

Client Sample ID: SCH-AP1-FD-2

Lab Sample ID: 680-235705-8

Date Collected: 05/30/23 00:00
Matrix: Water
Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		0.50	0.20	mg/L			06/04/23 21:36	1
Fluoride	0.058	J	0.10	0.040	mg/L			06/04/23 21:36	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	950		10	4.0	mg/L			06/05/23 13:48	10

Client Sample ID: SCH-AP1-FD-2
Lab Sample ID: 680-235705-8
Date Collected: 05/30/23 00:00
Matrix: Water
Date Received: 06/02/23 07:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**6.0**		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 16:18	1
Calcium	**63**		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 16:18	1
Cobalt	**0.0035**		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 16:18	1
Iron	**0.053**	**J**	0.10	0.012	mg/L		06/05/23 05:43	06/05/23 16:18	1
Magnesium	**62**		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 16:18	1
Manganese	**1.4**		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 16:18	1
Potassium	**4.2**	**B**	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 16:18	1
Sodium	**290**		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 16:18	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.0036**		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**7.5**		5.0	2.2	mg/L			06/09/23 22:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**7.5**		5.0	5.0	mg/L			06/09/23 22:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 22:09	1
Total Dissolved Solids (SM 2540C-2011)	**1400**		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	**16**		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**5.66**				SU			05/30/23 00:00	1
Ferrous Iron	**0.0**				mg/L			05/30/23 00:00	1

Client Sample ID: SCH-AP1-EB-1
Lab Sample ID: 680-235705-9
Date Collected: 05/30/23 16:30
Matrix: Water
Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/04/23 21:49	1
Fluoride	<0.040		0.10	0.040	mg/L			06/04/23 21:49	1
Sulfate	**0.66**	**J**	1.0	0.40	mg/L			06/04/23 21:49	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.12**		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 16:22	1
Calcium	<0.14		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 16:22	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 16:22	1
Iron	<0.012		0.10	0.012	mg/L		06/05/23 05:43	06/05/23 16:22	1
Magnesium	<0.023		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 16:22	1
Manganese	<0.0022		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 16:22	1
Potassium	**0.047**	**J B**	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 16:22	1
Sodium	<0.20		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 16:22	1

Client Sample ID: SCH-AP1-EB-1
Lab Sample ID: 680-235705-9
Date Collected: 05/30/23 16:30
Matrix: Water
Date Received: 06/02/23 07:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			06/09/23 22:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 22:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 22:02	1
Total Dissolved Solids (SM 2540C-2011)	<5.0		5.0	5.0	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	**12**		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1

Client Sample ID: SCH-AP1-FB-2
Lab Sample ID: 680-235705-10
Date Collected: 05/31/23 12:00
Matrix: Water
Date Received: 06/02/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/04/23 22:02	1
Fluoride	<0.040		0.10	0.040	mg/L			06/04/23 22:02	1
Sulfate	**0.40**	**J**	1.0	0.40	mg/L			06/04/23 22:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.065**	**J**	0.080	0.022	mg/L		06/05/23 05:43	06/05/23 16:26	1
Calcium	<0.14		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 16:26	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 16:26	1
Iron	**0.22**		0.10	0.012	mg/L		06/05/23 05:43	06/05/23 16:26	1
Magnesium	<0.023		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 16:26	1
Manganese	<0.0022		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 16:26	1
Potassium	**0.055**	**J B**	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 16:26	1
Sodium	<0.20		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 16:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			06/10/23 04:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/10/23 04:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/10/23 04:23	1
Total Dissolved Solids (SM 2540C-2011)	<5.0		5.0	5.0	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	**29**		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-781811/33
Matrix: Water
Analysis Batch: 781811

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/04/23 16:45	1
Fluoride	<0.040		0.10	0.040	mg/L			06/04/23 16:45	1
Sulfate	<0.40		1.0	0.40	mg/L			06/04/23 16:45	1

Lab Sample ID: LCS 680-781811/34
Matrix: Water
Analysis Batch: 781811

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.59		mg/L		96	90 - 110		
Fluoride			2.00	2.11		mg/L		105	90 - 110		
Sulfate			10.0	9.99		mg/L		100	90 - 110		

Lab Sample ID: LCSD 680-781811/35
Matrix: Water
Analysis Batch: 781811

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.61		mg/L		96	90 - 110	0	15
Fluoride			2.00	2.11		mg/L		106	90 - 110	0	15
Sulfate			10.0	10.0		mg/L		100	90 - 110	0	15

Lab Sample ID: 680-235651-C-1 MS
Matrix: Water
Analysis Batch: 781811

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	9.1		10.0	18.9		mg/L		98	80 - 120		
Fluoride	0.067	J	2.00	2.15		mg/L		104	80 - 120		
Sulfate	2.0		10.0	11.7		mg/L		98	80 - 120		

Lab Sample ID: 680-235651-C-1 MSD
Matrix: Water
Analysis Batch: 781811

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.1		10.0	18.7		mg/L		96	80 - 120	1	15
Fluoride	0.067	J	2.00	2.12		mg/L		103	80 - 120	2	15
Sulfate	2.0		10.0	11.5		mg/L		95	80 - 120	2	15

Lab Sample ID: 680-235705-4 MS
Matrix: Water
Analysis Batch: 781811

Client Sample ID: SCH-TW-15C-D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8.8		10.0	18.8		mg/L		100	80 - 120		
Fluoride	0.058	J	2.00	2.15		mg/L		105	80 - 120		
Sulfate	130		10.0	140	4	mg/L		98	80 - 120		

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-235705-4 MSD
Matrix: Water
Analysis Batch: 781811

Client Sample ID: SCH-TW-15C-D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.8		10.0	18.6		mg/L		98	80 - 120	1	15
Fluoride	0.058	J	2.00	2.11		mg/L		103	80 - 120	2	15
Sulfate	130		10.0	139	4	mg/L		97	80 - 120	0	15

Lab Sample ID: MB 680-781914/2
Matrix: Water
Analysis Batch: 781914

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/05/23 10:18	1
Fluoride	<0.040		0.10	0.040	mg/L			06/05/23 10:18	1
Sulfate	<0.40		1.0	0.40	mg/L			06/05/23 10:18	1

Lab Sample ID: LCS 680-781914/4
Matrix: Water
Analysis Batch: 781914

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.55		mg/L		95	90 - 110
Fluoride	2.00	1.95		mg/L		98	90 - 110
Sulfate	10.0	9.91		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-781914/5
Matrix: Water
Analysis Batch: 781914

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.54		mg/L		95	90 - 110	0	15
Fluoride	2.00	1.97		mg/L		98	90 - 110	1	15
Sulfate	10.0	9.91		mg/L		99	90 - 110	0	15

Lab Sample ID: 680-235468-F-3 MS
Matrix: Water
Analysis Batch: 781914

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.0		10.0	16.8		mg/L		98	80 - 120
Fluoride	0.066	J	2.00	2.17		mg/L		105	80 - 120
Sulfate	1.1		10.0	10.8		mg/L		97	80 - 120

Lab Sample ID: 680-235468-F-3 MSD
Matrix: Water
Analysis Batch: 781914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.0		10.0	16.8		mg/L		98	80 - 120	0	15
Fluoride	0.066	J	2.00	2.18		mg/L		106	80 - 120	0	15
Sulfate	1.1		10.0	10.8		mg/L		98	80 - 120	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-781850/1-A
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		06/05/23 05:43	06/05/23 15:21	1
Calcium	<0.14		0.50	0.14	mg/L		06/05/23 05:43	06/05/23 15:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/05/23 05:43	06/05/23 15:21	1
Iron	<0.012		0.10	0.012	mg/L		06/05/23 05:43	06/05/23 15:21	1
Magnesium	<0.023		0.50	0.023	mg/L		06/05/23 05:43	06/05/23 15:21	1
Manganese	<0.0022		0.0050	0.0022	mg/L		06/05/23 05:43	06/05/23 15:21	1
Potassium	0.0508	J	0.50	0.044	mg/L		06/05/23 05:43	06/05/23 15:21	1
Sodium	<0.20		0.50	0.20	mg/L		06/05/23 05:43	06/05/23 15:21	1

Lab Sample ID: LCS 680-781850/2-A
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.210		mg/L		105	80 - 120
Calcium	5.00	5.42		mg/L		108	80 - 120
Cobalt	0.0500	0.0602		mg/L		120	80 - 120
Iron	5.00	5.59		mg/L		112	80 - 120
Magnesium	5.00	5.79		mg/L		116	80 - 120
Manganese	0.400	0.470		mg/L		118	80 - 120
Potassium	7.00	7.99		mg/L		114	80 - 120
Sodium	5.00	5.42		mg/L		108	80 - 120

Lab Sample ID: 680-235718-I-6-C MS
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 781850

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<0.022		0.200	0.213		mg/L		106	75 - 125
Calcium	3.2		5.00	8.71		mg/L		111	75 - 125
Cobalt	0.00045	J	0.0500	0.0608		mg/L		121	75 - 125
Iron	0.077	J	5.00	5.69		mg/L		112	75 - 125
Magnesium	3.3	F1	5.00	9.75	F1	mg/L		128	75 - 125
Manganese	0.018		0.400	0.482		mg/L		116	75 - 125
Potassium	0.36	J B	7.00	8.19		mg/L		112	75 - 125
Sodium	8.7		5.00	13.9		mg/L		105	75 - 125

Lab Sample ID: 680-235718-I-6-D MSD
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 781850

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.022		0.200	0.206		mg/L		103	75 - 125	3	20
Calcium	3.2		5.00	8.29		mg/L		102	75 - 125	5	20
Cobalt	0.00045	J	0.0500	0.0581		mg/L		115	75 - 125	5	20
Iron	0.077	J	5.00	5.52		mg/L		109	75 - 125	3	20
Magnesium	3.3	F1	5.00	9.54		mg/L		124	75 - 125	2	20
Manganese	0.018		0.400	0.458		mg/L		110	75 - 125	5	20
Potassium	0.36	J B	7.00	7.85		mg/L		107	75 - 125	4	20

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

Lab Sample ID: 680-235718-I-6-D MSD
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 781850

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	8.7		5.00	13.4		mg/L		95	75 - 125	4	20

Lab Sample ID: MB 680-781851/1-A
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	<0.14		0.50	0.14	mg/L		06/05/23 05:48	06/05/23 16:47	1
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		06/05/23 05:48	06/05/23 16:47	1
Iron, Dissolved	<0.012		0.10	0.012	mg/L		06/05/23 05:48	06/05/23 16:47	1
Magnesium, Dissolved	<0.023		0.50	0.023	mg/L		06/05/23 05:48	06/05/23 16:47	1
Manganese, Dissolved	<0.0022		0.0050	0.0022	mg/L		06/05/23 05:48	06/05/23 16:47	1
Potassium, Dissolved	0.0504	J	0.50	0.044	mg/L		06/05/23 05:48	06/05/23 16:47	1
Sodium, Dissolved	<0.20		0.50	0.20	mg/L		06/05/23 05:48	06/05/23 16:47	1

Lab Sample ID: MB 680-781851/1-A
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	<0.022		0.080	0.022	mg/L		06/05/23 05:48	06/06/23 10:22	1

Lab Sample ID: LCS 680-781851/2-A
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	5.00	5.28		mg/L		106	80 - 120
Cobalt, Dissolved	0.0500	0.0562		mg/L		112	80 - 120
Iron, Dissolved	5.00	5.39		mg/L		108	80 - 120
Magnesium, Dissolved	5.00	5.54		mg/L		111	80 - 120
Manganese, Dissolved	0.400	0.431		mg/L		108	80 - 120
Potassium, Dissolved	7.00	7.62		mg/L		109	80 - 120
Sodium, Dissolved	5.00	5.43		mg/L		109	80 - 120

Lab Sample ID: LCS 680-781851/2-A
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	0.200	0.187		mg/L		94	80 - 120

Lab Sample ID: 680-235718-H-6-C MS
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 781851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	3100		5.00	8.49	4	mg/L		-6207	75 - 125
Cobalt, Dissolved	0.00037	J	0.0500	0.0579		mg/L		115	75 - 125

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

Lab Sample ID: 680-235718-H-6-C MS
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 781851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron, Dissolved	0.050	J	5.00	5.53		mg/L		110	75 - 125
Magnesium, Dissolved	3.4		5.00	9.21		mg/L		116	75 - 125
Manganese, Dissolved	0.017		0.400	0.462		mg/L		111	75 - 125
Potassium, Dissolved	0.36	J B	7.00	8.06		mg/L		110	75 - 125
Sodium, Dissolved	9.1		5.00	14.2		mg/L		103	75 - 125

Lab Sample ID: 680-235718-H-6-C MS
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 781851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	<0.022		0.200	0.193		mg/L		96	75 - 125

Lab Sample ID: 680-235718-H-6-D MSD
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 781851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium, Dissolved	3100		5.00	8.48	4	mg/L		-6207 2	75 - 125	0	20
Cobalt, Dissolved	0.00037	J	0.0500	0.0580		mg/L		115	75 - 125	0	20
Iron, Dissolved	0.050	J	5.00	5.50		mg/L		109	75 - 125	1	20
Magnesium, Dissolved	3.4		5.00	9.06		mg/L		113	75 - 125	2	20
Manganese, Dissolved	0.017		0.400	0.464		mg/L		112	75 - 125	0	20
Potassium, Dissolved	0.36	J B	7.00	7.99		mg/L		109	75 - 125	1	20
Sodium, Dissolved	9.1		5.00	13.9		mg/L		97	75 - 125	2	20

Lab Sample ID: 680-235718-H-6-D MSD
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 781851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	<0.022		0.200	0.191		mg/L		96	75 - 125	1	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-783097/4
Matrix: Water
Analysis Batch: 783097

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<2.2		5.0	2.2	mg/L			06/09/23 19:29	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			06/09/23 19:29	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			06/09/23 19:29	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 680-783097/6
Matrix: Water
Analysis Batch: 783097

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			250	248		mg/L		99	90 - 112		

Lab Sample ID: LCSD 680-783097/31
Matrix: Water
Analysis Batch: 783097

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5			250	249		mg/L		100	90 - 112	1	30

Lab Sample ID: 680-235705-2 DU
Matrix: Water
Analysis Batch: 783097

Client Sample ID: SCH-TW-15A-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<2.2			<2.2		mg/L				NC	30
Bicarbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

Lab Sample ID: MB 680-783102/4
Matrix: Water
Analysis Batch: 783102

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<2.2		5.0	2.2	mg/L			06/10/23 00:41	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			06/10/23 00:41	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			06/10/23 00:41	1

Lab Sample ID: LCS 680-783102/6
Matrix: Water
Analysis Batch: 783102

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			250	251		mg/L		100	90 - 112		

Lab Sample ID: LCSD 680-783102/31
Matrix: Water
Analysis Batch: 783102

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5			250	246		mg/L		98	90 - 112	2	30

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 680-235980-F-4 DU
Matrix: Water
Analysis Batch: 783102

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	26		22.7		mg/L		12	30
Bicarbonate Alkalinity as CaCO3	26		22.7		mg/L		12	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-782179/1
Matrix: Water
Analysis Batch: 782179

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.0		5.0	5.0	mg/L			06/06/23 12:50	1

Lab Sample ID: LCS 680-782179/2
Matrix: Water
Analysis Batch: 782179

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2410	2400		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-782179/3
Matrix: Water
Analysis Batch: 782179

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2410	2380		mg/L		99	80 - 120	1	25

Lab Sample ID: 680-235705-6 DU
Matrix: Water
Analysis Batch: 782179

Client Sample ID: SCH-TW-18D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1400		1410		mg/L		2	5

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-781945/1-A
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1

Lab Sample ID: LCS 680-781945/2-A
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	208	188		mg/L		90	50 - 150

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCSD 680-781945/3-A
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 781945

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			208	162		mg/L		78	50 - 150	15	50

Lab Sample ID: 680-235511-H-4-B MS
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	96		208	306		mg/L		101	50 - 150		

Lab Sample ID: 680-235511-H-4-C MSD
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	96		208	309		mg/L		102	50 - 150	1	50

Lab Sample ID: 680-235511-H-3-B DU
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	130		134		mg/L		3	50

HPLC/IC

Analysis Batch: 781811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total/NA	Water	300.0-1993 R2.1	
680-235705-2	SCH-TW-15A-S	Total/NA	Water	300.0-1993 R2.1	
680-235705-3	SCH-TW-15B	Total/NA	Water	300.0-1993 R2.1	
680-235705-4	SCH-TW-15C-D	Total/NA	Water	300.0-1993 R2.1	
680-235705-5	SCH-TW-15C-S	Total/NA	Water	300.0-1993 R2.1	
680-235705-6	SCH-TW-18D	Total/NA	Water	300.0-1993 R2.1	
680-235705-7	SCH-TW-18B	Total/NA	Water	300.0-1993 R2.1	
680-235705-8	SCH-AP1-FD-2	Total/NA	Water	300.0-1993 R2.1	
680-235705-9	SCH-AP1-EB-1	Total/NA	Water	300.0-1993 R2.1	
680-235705-10	SCH-AP1-FB-2	Total/NA	Water	300.0-1993 R2.1	
MB 680-781811/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-781811/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-781811/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-235651-C-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-235651-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	
680-235705-4 MS	SCH-TW-15C-D	Total/NA	Water	300.0-1993 R2.1	
680-235705-4 MSD	SCH-TW-15C-D	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 781914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-6 - DL	SCH-TW-18D	Total/NA	Water	300.0-1993 R2.1	
680-235705-7 - DL	SCH-TW-18B	Total/NA	Water	300.0-1993 R2.1	
680-235705-8 - DL	SCH-AP1-FD-2	Total/NA	Water	300.0-1993 R2.1	
MB 680-781914/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-781914/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-781914/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-235468-F-3 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-235468-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 781850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total Recoverable	Water	3005A	
680-235705-2	SCH-TW-15A-S	Total Recoverable	Water	3005A	
680-235705-3	SCH-TW-15B	Total Recoverable	Water	3005A	
680-235705-4	SCH-TW-15C-D	Total Recoverable	Water	3005A	
680-235705-5	SCH-TW-15C-S	Total Recoverable	Water	3005A	
680-235705-6	SCH-TW-18D	Total Recoverable	Water	3005A	
680-235705-7	SCH-TW-18B	Total Recoverable	Water	3005A	
680-235705-8	SCH-AP1-FD-2	Total Recoverable	Water	3005A	
680-235705-9	SCH-AP1-EB-1	Total Recoverable	Water	3005A	
680-235705-10	SCH-AP1-FB-2	Total Recoverable	Water	3005A	
MB 680-781850/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-781850/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-235718-I-6-C MS	Matrix Spike	Total Recoverable	Water	3005A	
680-235718-I-6-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 781851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 781851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-2	SCH-TW-15A-S	Dissolved	Water	3005A	
680-235705-3	SCH-TW-15B	Dissolved	Water	3005A	
680-235705-4	SCH-TW-15C-D	Dissolved	Water	3005A	
680-235705-5	SCH-TW-15C-S	Dissolved	Water	3005A	
680-235705-6	SCH-TW-18D	Dissolved	Water	3005A	
680-235705-7	SCH-TW-18B	Dissolved	Water	3005A	
680-235705-8	SCH-AP1-FD-2	Dissolved	Water	3005A	
680-235705-9	SCH-AP1-EB-1	Dissolved	Water	3005A	
680-235705-10	SCH-AP1-FB-2	Dissolved	Water	3005A	
MB 680-781851/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-781851/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-235718-H-6-C MS	Matrix Spike	Dissolved	Water	3005A	
680-235718-H-6-D MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 782074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Dissolved	Water	6020B	781851
680-235705-1	SCH-TW-15A-D	Total Recoverable	Water	6020B	781850
680-235705-2	SCH-TW-15A-S	Dissolved	Water	6020B	781851
680-235705-2	SCH-TW-15A-S	Total Recoverable	Water	6020B	781850
680-235705-3	SCH-TW-15B	Dissolved	Water	6020B	781851
680-235705-3	SCH-TW-15B	Total Recoverable	Water	6020B	781850
680-235705-4	SCH-TW-15C-D	Dissolved	Water	6020B	781851
680-235705-4	SCH-TW-15C-D	Total Recoverable	Water	6020B	781850
680-235705-5	SCH-TW-15C-S	Dissolved	Water	6020B	781851
680-235705-5	SCH-TW-15C-S	Total Recoverable	Water	6020B	781850
680-235705-6	SCH-TW-18D	Dissolved	Water	6020B	781851
680-235705-6	SCH-TW-18D	Total Recoverable	Water	6020B	781850
680-235705-7	SCH-TW-18B	Dissolved	Water	6020B	781851
680-235705-7	SCH-TW-18B	Total Recoverable	Water	6020B	781850
680-235705-8	SCH-AP1-FD-2	Dissolved	Water	6020B	781851
680-235705-8	SCH-AP1-FD-2	Total Recoverable	Water	6020B	781850
680-235705-9	SCH-AP1-EB-1	Dissolved	Water	6020B	781851
680-235705-9	SCH-AP1-EB-1	Total Recoverable	Water	6020B	781850
680-235705-10	SCH-AP1-FB-2	Dissolved	Water	6020B	781851
680-235705-10	SCH-AP1-FB-2	Total Recoverable	Water	6020B	781850
MB 680-781850/1-A	Method Blank	Total Recoverable	Water	6020B	781850
MB 680-781851/1-A	Method Blank	Total Recoverable	Water	6020B	781851
LCS 680-781850/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781850
LCS 680-781851/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781851
680-235718-H-6-C MS	Matrix Spike	Dissolved	Water	6020B	781851
680-235718-H-6-D MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	781851
680-235718-I-6-C MS	Matrix Spike	Total Recoverable	Water	6020B	781850
680-235718-I-6-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	781850

Analysis Batch: 782213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-3	SCH-TW-15B	Dissolved	Water	6020B	781851
MB 680-781851/1-A	Method Blank	Total Recoverable	Water	6020B	781851
LCS 680-781851/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781851
680-235718-H-6-C MS	Matrix Spike	Dissolved	Water	6020B	781851

Metals (Continued)

Analysis Batch: 782213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235718-H-6-D MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	781851

General Chemistry

Analysis Batch: 781888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total/NA	Water	SM 3500	
680-235705-2	SCH-TW-15A-S	Total/NA	Water	SM 3500	
680-235705-3	SCH-TW-15B	Total/NA	Water	SM 3500	
680-235705-4	SCH-TW-15C-D	Total/NA	Water	SM 3500	
680-235705-5	SCH-TW-15C-S	Total/NA	Water	SM 3500	
680-235705-6	SCH-TW-18D	Total/NA	Water	SM 3500	
680-235705-7	SCH-TW-18B	Total/NA	Water	SM 3500	
680-235705-8	SCH-AP1-FD-2	Total/NA	Water	SM 3500	

Prep Batch: 781945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total/NA	Water	9030B	
680-235705-2	SCH-TW-15A-S	Total/NA	Water	9030B	
680-235705-3	SCH-TW-15B	Total/NA	Water	9030B	
680-235705-4	SCH-TW-15C-D	Total/NA	Water	9030B	
680-235705-5	SCH-TW-15C-S	Total/NA	Water	9030B	
680-235705-6	SCH-TW-18D	Total/NA	Water	9030B	
680-235705-7	SCH-TW-18B	Total/NA	Water	9030B	
680-235705-8	SCH-AP1-FD-2	Total/NA	Water	9030B	
680-235705-9	SCH-AP1-EB-1	Total/NA	Water	9030B	
680-235705-10	SCH-AP1-FB-2	Total/NA	Water	9030B	
MB 680-781945/1-A	Method Blank	Total/NA	Water	9030B	
LCS 680-781945/2-A	Lab Control Sample	Total/NA	Water	9030B	
LCSD 680-781945/3-A	Lab Control Sample Dup	Total/NA	Water	9030B	
680-235511-H-4-B MS	Matrix Spike	Total/NA	Water	9030B	
680-235511-H-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	
680-235511-H-3-B DU	Duplicate	Total/NA	Water	9030B	

Analysis Batch: 782020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total/NA	Water	9034	781945
680-235705-2	SCH-TW-15A-S	Total/NA	Water	9034	781945
680-235705-3	SCH-TW-15B	Total/NA	Water	9034	781945
680-235705-4	SCH-TW-15C-D	Total/NA	Water	9034	781945
680-235705-5	SCH-TW-15C-S	Total/NA	Water	9034	781945
680-235705-6	SCH-TW-18D	Total/NA	Water	9034	781945
680-235705-7	SCH-TW-18B	Total/NA	Water	9034	781945
680-235705-8	SCH-AP1-FD-2	Total/NA	Water	9034	781945
680-235705-9	SCH-AP1-EB-1	Total/NA	Water	9034	781945
680-235705-10	SCH-AP1-FB-2	Total/NA	Water	9034	781945
MB 680-781945/1-A	Method Blank	Total/NA	Water	9034	781945
LCS 680-781945/2-A	Lab Control Sample	Total/NA	Water	9034	781945
LCSD 680-781945/3-A	Lab Control Sample Dup	Total/NA	Water	9034	781945
680-235511-H-4-B MS	Matrix Spike	Total/NA	Water	9034	781945
680-235511-H-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	781945

General Chemistry (Continued)

Analysis Batch: 782020 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235511-H-3-B DU	Duplicate	Total/NA	Water	9034	781945

Analysis Batch: 782179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total/NA	Water	2540C-2011	
680-235705-2	SCH-TW-15A-S	Total/NA	Water	2540C-2011	
680-235705-3	SCH-TW-15B	Total/NA	Water	2540C-2011	
680-235705-4	SCH-TW-15C-D	Total/NA	Water	2540C-2011	
680-235705-5	SCH-TW-15C-S	Total/NA	Water	2540C-2011	
680-235705-6	SCH-TW-18D	Total/NA	Water	2540C-2011	
680-235705-7	SCH-TW-18B	Total/NA	Water	2540C-2011	
680-235705-8	SCH-AP1-FD-2	Total/NA	Water	2540C-2011	
680-235705-9	SCH-AP1-EB-1	Total/NA	Water	2540C-2011	
680-235705-10	SCH-AP1-FB-2	Total/NA	Water	2540C-2011	
MB 680-782179/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-782179/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-782179/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-235705-6 DU	SCH-TW-18D	Total/NA	Water	2540C-2011	

Analysis Batch: 783097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-2	SCH-TW-15A-S	Total/NA	Water	2320B-2011	
680-235705-3	SCH-TW-15B	Total/NA	Water	2320B-2011	
680-235705-5	SCH-TW-15C-S	Total/NA	Water	2320B-2011	
680-235705-6	SCH-TW-18D	Total/NA	Water	2320B-2011	
680-235705-7	SCH-TW-18B	Total/NA	Water	2320B-2011	
680-235705-8	SCH-AP1-FD-2	Total/NA	Water	2320B-2011	
680-235705-9	SCH-AP1-EB-1	Total/NA	Water	2320B-2011	
MB 680-783097/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-783097/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-783097/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-235705-2 DU	SCH-TW-15A-S	Total/NA	Water	2320B-2011	

Analysis Batch: 783102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total/NA	Water	2320B-2011	
680-235705-4	SCH-TW-15C-D	Total/NA	Water	2320B-2011	
680-235705-10	SCH-AP1-FB-2	Total/NA	Water	2320B-2011	
MB 680-783102/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-783102/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-783102/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-235980-F-4 DU	Duplicate	Total/NA	Water	2320B-2011	

Field Service / Mobile Lab

Analysis Batch: 782507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-1	SCH-TW-15A-D	Total/NA	Water	Field Sampling	
680-235705-2	SCH-TW-15A-S	Total/NA	Water	Field Sampling	
680-235705-3	SCH-TW-15B	Total/NA	Water	Field Sampling	
680-235705-4	SCH-TW-15C-D	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 782507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235705-5	SCH-TW-15C-S	Total/NA	Water	Field Sampling	
680-235705-6	SCH-TW-18D	Total/NA	Water	Field Sampling	
680-235705-7	SCH-TW-18B	Total/NA	Water	Field Sampling	
680-235705-8	SCH-AP1-FD-2	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235705-1

Client Sample ID: SCH-TW-15A-D

Lab Sample ID: 680-235705-1

Date Collected: 05/31/23 09:35
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 19:17	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 18:04	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 15:42	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783102	06/10/23 04:18	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	05/31/23 09:35	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-15A-S

Lab Sample ID: 680-235705-2

Date Collected: 05/31/23 11:21
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 19:30	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:07	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 15:46	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 19:51	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	05/31/23 11:21	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-15B

Lab Sample ID: 680-235705-3

Date Collected: 05/31/23 13:50

Matrix: Water

Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 19:42	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:11	BWR	EET SAV
	Instrument ID: ICPMSC									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782213	06/06/23 10:42	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 15:50	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 20:19	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	05/31/23 13:50	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-15C-D

Lab Sample ID: 680-235705-4

Date Collected: 05/31/23 16:02

Matrix: Water

Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 20:20	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:15	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 15:54	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783102	06/10/23 04:10	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235705-1

Client Sample ID: SCH-TW-15C-D

Lab Sample ID: 680-235705-4
Date Collected: 05/31/23 16:02
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			782507	05/31/23 16:02	P1C	EET SAV

Client Sample ID: SCH-TW-15C-S

Lab Sample ID: 680-235705-5
Date Collected: 05/31/23 15:33
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 20:58	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:19	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 15:58	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 20:01	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	05/31/23 15:33	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-18D

Lab Sample ID: 680-235705-6
Date Collected: 05/30/23 14:04
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 21:11	UI	EET SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1	DL	10	5 mL	5 mL	781914	06/05/23 13:22	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:23	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 16:10	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 20:26	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

Client: Southern Company
Job ID: 680-235705-1
Project/Site: CCR - Plant Scherer Temporary Wells

Client Sample ID: SCH-TW-18D
Lab Sample ID: 680-235705-6
Date Collected: 05/30/23 14:04
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	05/30/23 14:04	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-18B
Lab Sample ID: 680-235705-7
Date Collected: 05/30/23 12:56
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 21:24	UI	EET SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	781914	06/05/23 13:35	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:35	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 16:14	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 20:11	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	05/30/23 12:56	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-FD-2
Lab Sample ID: 680-235705-8
Date Collected: 05/30/23 00:00
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 21:36	UI	EET SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1	DL	10	5 mL	5 mL	781914	06/05/23 13:48	UI	EET SAV
	Instrument ID: CICK									

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235705-1

Client Sample ID: SCH-AP1-FD-2

Lab Sample ID: 680-235705-8

Date Collected: 05/30/23 00:00
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:39	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 16:18	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 22:09	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	05/30/23 00:00	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-AP1-EB-1

Lab Sample ID: 680-235705-9

Date Collected: 05/30/23 16:30
Matrix: Water
Date Received: 06/02/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 21:49	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:43	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 16:22	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 22:02	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235705-1

Client Sample ID: SCH-AP1-FB-2

Date Collected: 05/31/23 12:00
Date Received: 06/02/23 07:00

Lab Sample ID: 680-235705-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 22:02	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781851	06/05/23 05:48	RR	EET SAV
Dissolved	Analysis	6020B		1			782074	06/05/23 17:48	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781850	06/05/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/05/23 16:26	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783102	06/10/23 04:23	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-235705-1
Project/Site: CCR - Plant Scherer Temporary Wells

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-23
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	06-30-23
Kentucky (UST)	State	NA	06-30-23
Louisiana	NELAP	30690	06-30-23
Louisiana (All)	NELAP	30690	06-30-23
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wyoming	State	8TMS-L	06-30-23

Method Summary

Client: Southern Company
Job ID: 680-235705-1
Project/Site: CCR - Plant Scherer Temporary Wells

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET SAV
SM 3500	Iron, Ferric	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins

Client Information	Sampler: Mark Mann	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No.
Client Contact: Joju Abraham	Phone: 706-755-3862	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: (DO NOT REMOVE) 68027798			
Email: JAbraham@southernco.com	Lab PO #: GPC82130-0003 / PO Line #1			
Project Name: Project Name CCR - Plant Scherer Temporary Wells	Project #:			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride, Fluoride, Sulfate	2320B - Alkalinity, Total, Carb/Bicarb	6020B - App III + Co, Fe, Mg, Mn, K, Na	2540C - Solids, Total Dissolved (TDS)	9034 - Sulfide (FILL BOTTLES COMPLETELY)	6020B - Dissolved App III + Co, Fe, Mg, Mn, K, Na (field filtered)	Field Sampling - pH & Ferrous Iron (Fe+2)	3500_Fe+3_D_Cal - Ferric Iron (Calculated)	Total Number of containers	Task_Code. SCH-CCR-CA-20230522 Special Instructions/Notes:
			Preservation Code				N	N	D	N	CB	D	N	N		
SCH-TW-15A-D	5/31/23	09 35	G	WG	X		X	X	X	X	X		X	X	7	pH = 5.56, Fe+2 = 0.3
SCH-TW-15A-S	5/31/23	11 21	G	WG	X		X	X	X	X	X		X	X		pH = 4.32, Fe+2 = 0.0
SCH-TW-15B	5/31/23	13 50	G	WG	X		X	X	X	X	X	X	X	X	8	pH = 5.72, Fe+2 = 0.0
SCH-TW-15C-D	5/31/23	16 02	G	WG	X		X	X	X	X	X		X	X	7	pH = 6.16, Fe+2 = 0.0
SCH-TW-15C-S	5/31/23	15 33	G	WG	X		X	X	X	X	X		X	X		pH = 4.49, Fe+2 = 0.0
SCH-TW-18D	5/30/23	14 04	G	WG	X		X	X	X	X	X		X	X		pH = 5.66, Fe+2 = 0.0
SCH-TW-18B	5/30/23	12 56	G	WG	X		X	X	X	X	X		X	X		pH = 6.95, Fe+2 = 0.0
SCH-AP1-FD2	5/30/23	--	G	WG	X		X	X	X	X	X		X	X		pH = 5.66, Fe+2 = 0.0
SCH-AP1-EB1	5/30/23	16 30	G	WQ	X		X	X	X	X	X		X	X		
SCH-AP1-FB2	5/31/23	12 00	G	WQ	X		X	X	X	X	X		X	X	7	

680-235705 Chain of Custody

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y - Trizma, Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: FT

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
MARK MANN	06/01/2023 0805	WSP	Elaine COOK	6/1/23 8:05	
Elaine COOK	06/01/23 10:05	Courier Now		6-1-23 10:05	Courier Now
	6-1-23 10:05			6/2/23 07:10	Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 3.9/3.7 1.7/1.5 3.6/3.4

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-235705-1

Login Number: 235705
List Number: 1
Creator: Drake, Victoria

List Source: Eurofins Savannah

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joju Abraham
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 6/15/2023 11:56:46 AM Revision 1

JOB DESCRIPTION

CCR - Plant Scherer Temporary Wells

JOB NUMBER

680-235776-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
6/15/2023 11:56:46 AM
Revision 1

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-235776-1
Project/Site: CCR - Plant Scherer Temporary Wells

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-235776-1
Project/Site: CCR - Plant Scherer Temporary Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-235776-1	SCH-TW-20A	Water	06/01/23 13:43	06/03/23 07:00
680-235776-2	SCH-TW-20B	Water	06/01/23 13:28	06/03/23 07:00
680-235776-3	SCH-TW-20C	Water	06/01/23 10:30	06/03/23 07:00
680-235776-4	SCH-TW-20D	Water	06/01/23 11:58	06/03/23 07:00
680-235776-5	SCH-AP1-EB-2	Water	06/01/23 13:30	06/03/23 07:00

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235776-1

Job ID: 680-235776-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-235776-1

Revision 1
The report being provided is a revision of the original report sent on 6/13/2023. The report (revision 1) is being revised in order to correct Reporting Limits for Total & Dissolved metals to match historical levels reported for this site.

Receipt
The samples were received on 6/3/2023 7:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-781915 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

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

Client Sample ID: SCH-TW-20A

Lab Sample ID: 680-235776-1
Date Collected: 06/01/23 13:43
Matrix: Water
Date Received: 06/03/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		0.50	0.20	mg/L			06/05/23 22:26	1
Fluoride	0.072	J	0.10	0.040	mg/L			06/05/23 22:26	1
Sulfate	150		1.0	0.40	mg/L			06/05/23 22:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.81		0.080	0.022	mg/L		06/05/23 09:00	06/06/23 04:59	1
Calcium	40		0.50	0.14	mg/L		06/05/23 09:00	06/06/23 04:59	1
Cobalt	0.00071	J	0.0025	0.00022	mg/L		06/05/23 09:00	06/06/23 04:59	1
Iron	0.035	J	0.10	0.012	mg/L		06/05/23 09:00	06/06/23 04:59	1
Magnesium	19		0.50	0.023	mg/L		06/05/23 09:00	06/06/23 04:59	1
Manganese	0.082		0.0050	0.0022	mg/L		06/05/23 09:00	06/06/23 04:59	1
Potassium	3.3	B	0.50	0.044	mg/L		06/05/23 09:00	06/06/23 04:59	1
Sodium	16		0.50	0.20	mg/L		06/05/23 09:00	06/06/23 04:59	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.00075	J	0.0025	0.00022	mg/L		06/05/23 10:50	06/06/23 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	48		5.0	2.2	mg/L			06/09/23 21:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	48		5.0	5.0	mg/L			06/09/23 21:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 21:18	1
Total Dissolved Solids (SM 2540C-2011)	300		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	15		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.12				SU			06/01/23 13:43	1
Ferrous Iron	0.0				mg/L			06/01/23 13:43	1

Client Sample ID: SCH-TW-20B

Lab Sample ID: 680-235776-2
Date Collected: 06/01/23 13:28
Matrix: Water
Date Received: 06/03/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		0.50	0.20	mg/L			06/05/23 22:39	1
Fluoride	0.067	J	0.10	0.040	mg/L			06/05/23 22:39	1
Sulfate	63		1.0	0.40	mg/L			06/05/23 22:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.086		0.080	0.022	mg/L		06/05/23 09:00	06/06/23 05:11	1
Calcium	18		0.50	0.14	mg/L		06/05/23 09:00	06/06/23 05:11	1
Cobalt	0.0064		0.0025	0.00022	mg/L		06/05/23 09:00	06/06/23 05:11	1

Client Sample ID: SCH-TW-20B
Lab Sample ID: 680-235776-2
Date Collected: 06/01/23 13:28
Matrix: Water
Date Received: 06/03/23 07:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.016	J	0.10	0.012	mg/L		06/05/23 09:00	06/06/23 05:11	1
Magnesium	8.3		0.50	0.023	mg/L		06/05/23 09:00	06/06/23 05:11	1
Manganese	0.28		0.0050	0.0022	mg/L		06/05/23 09:00	06/06/23 05:11	1
Potassium	3.8	B	0.50	0.044	mg/L		06/05/23 09:00	06/06/23 05:11	1
Sodium	14		0.50	0.20	mg/L		06/05/23 09:00	06/06/23 05:11	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.0071		0.0025	0.00022	mg/L		06/05/23 10:50	06/06/23 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	40		5.0	2.2	mg/L			06/09/23 22:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	40		5.0	5.0	mg/L			06/09/23 22:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 22:25	1
Total Dissolved Solids (SM 2540C-2011)	160		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	32		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.93				SU			06/01/23 13:28	1
Ferrous Iron	0.0				mg/L			06/01/23 13:28	1

Client Sample ID: SCH-TW-20C
Lab Sample ID: 680-235776-3
Date Collected: 06/01/23 10:30
Matrix: Water
Date Received: 06/03/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.2		0.50	0.20	mg/L			06/05/23 22:52	1
Fluoride	0.067	J	0.10	0.040	mg/L			06/05/23 22:52	1
Sulfate	100		1.0	0.40	mg/L			06/05/23 22:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.28		0.080	0.022	mg/L		06/05/23 09:00	06/06/23 05:15	1
Calcium	23		0.50	0.14	mg/L		06/05/23 09:00	06/06/23 05:15	1
Cobalt	0.0079		0.0025	0.00022	mg/L		06/05/23 09:00	06/06/23 05:15	1
Iron	0.045	J	0.10	0.012	mg/L		06/05/23 09:00	06/06/23 05:15	1
Magnesium	10		0.50	0.023	mg/L		06/05/23 09:00	06/06/23 05:15	1
Manganese	0.29		0.0050	0.0022	mg/L		06/05/23 09:00	06/06/23 05:15	1
Potassium	3.3	B	0.50	0.044	mg/L		06/05/23 09:00	06/06/23 05:15	1
Sodium	15		0.50	0.20	mg/L		06/05/23 09:00	06/06/23 05:15	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.0087		0.0025	0.00022	mg/L		06/05/23 10:50	06/06/23 12:44	1

Client Sample ID: SCH-TW-20C

Lab Sample ID: 680-235776-3

Date Collected: 06/01/23 10:30

Matrix: Water

Date Received: 06/03/23 07:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	24		5.0	2.2	mg/L			06/09/23 21:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	24		5.0	5.0	mg/L			06/09/23 21:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 21:49	1
Total Dissolved Solids (SM 2540C-2011)	190		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	19		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.69				SU			06/01/23 10:30	1
Ferrous Iron	0.1				mg/L			06/01/23 10:30	1

Client Sample ID: SCH-TW-20D

Lab Sample ID: 680-235776-4

Date Collected: 06/01/23 11:58

Matrix: Water

Date Received: 06/03/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		0.50	0.20	mg/L			06/05/23 23:04	1
Fluoride	0.051	J	0.10	0.040	mg/L			06/05/23 23:04	1
Sulfate	130		1.0	0.40	mg/L			06/05/23 23:04	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.73		0.080	0.022	mg/L		06/05/23 09:00	06/06/23 05:19	1
Calcium	20		0.50	0.14	mg/L		06/05/23 09:00	06/06/23 05:19	1
Cobalt	0.019		0.0025	0.00022	mg/L		06/05/23 09:00	06/06/23 05:19	1
Iron	0.026	J	0.10	0.012	mg/L		06/05/23 09:00	06/06/23 05:19	1
Magnesium	10		0.50	0.023	mg/L		06/05/23 09:00	06/06/23 05:19	1
Manganese	0.37		0.0050	0.0022	mg/L		06/05/23 09:00	06/06/23 05:19	1
Potassium	4.6	B	0.50	0.044	mg/L		06/05/23 09:00	06/06/23 05:19	1
Sodium	27		0.50	0.20	mg/L		06/05/23 09:00	06/06/23 05:19	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.021		0.0025	0.00022	mg/L		06/05/23 10:50	06/06/23 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	7.8		5.0	2.2	mg/L			06/09/23 22:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	7.8		5.0	5.0	mg/L			06/09/23 22:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 22:16	1
Total Dissolved Solids (SM 2540C-2011)	230		20	20	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	18		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			06/08/23 08:43	1

Client: Southern Company
Job ID: 680-235776-1
Project/Site: CCR - Plant Scherer Temporary Wells

Client Sample ID: SCH-TW-20D
Lab Sample ID: 680-235776-4
Date Collected: 06/01/23 11:58
Matrix: Water
Date Received: 06/03/23 07:00

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**5.31**				SU			06/01/23 11:58	1
Ferrous Iron	**0.0**				mg/L			06/01/23 11:58	1

Client Sample ID: SCH-AP1-EB-2
Lab Sample ID: 680-235776-5
Date Collected: 06/01/23 13:30
Matrix: Water
Date Received: 06/03/23 07:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/05/23 23:17	1
Fluoride	<0.040		0.10	0.040	mg/L			06/05/23 23:17	1
Sulfate	**0.47**	**J**	1.0	0.40	mg/L			06/05/23 23:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		06/05/23 09:00	06/06/23 05:23	1
Calcium	**0.20**	**J**	0.50	0.14	mg/L		06/05/23 09:00	06/06/23 05:23	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/05/23 09:00	06/06/23 05:23	1
Iron	<0.012		0.10	0.012	mg/L		06/05/23 09:00	06/06/23 05:23	1
Magnesium	**0.085**	**J**	0.50	0.023	mg/L		06/05/23 09:00	06/06/23 05:23	1
Manganese	**0.0032**	**J**	0.0050	0.0022	mg/L		06/05/23 09:00	06/06/23 05:23	1
Potassium	**0.077**	**J B**	0.50	0.044	mg/L		06/05/23 09:00	06/06/23 05:23	1
Sodium	**0.23**	**J**	0.50	0.20	mg/L		06/05/23 09:00	06/06/23 05:23	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		06/05/23 10:50	06/06/23 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			06/09/23 22:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 22:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			06/09/23 22:38	1
Total Dissolved Solids (SM 2540C-2011)	<5.0		5.0	5.0	mg/L			06/06/23 12:50	1
Sulfide (SW846 9034)	**17**		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-781915/33
Matrix: Water
Analysis Batch: 781915

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			06/05/23 17:35	1
Fluoride	<0.040		0.10	0.040	mg/L			06/05/23 17:35	1
Sulfate	<0.40		1.0	0.40	mg/L			06/05/23 17:35	1

Lab Sample ID: LCS 680-781915/34
Matrix: Water
Analysis Batch: 781915

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.51		mg/L		95	90 - 110
Fluoride	2.00	2.07		mg/L		104	90 - 110
Sulfate	10.0	9.80		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-781915/35
Matrix: Water
Analysis Batch: 781915

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.51		mg/L		95	90 - 110	0	15
Fluoride	2.00	2.08		mg/L		104	90 - 110	0	15
Sulfate	10.0	9.81		mg/L		98	90 - 110	0	15

Lab Sample ID: 680-235680-L-1 MS
Matrix: Water
Analysis Batch: 781915

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	53		10.0	63.0	4	mg/L		98	80 - 120
Fluoride	<0.040	F1	2.00	1.01	F1	mg/L		51	80 - 120
Sulfate	0.49	J	10.0	10.4		mg/L		99	80 - 120

Lab Sample ID: 680-235680-L-1 MSD
Matrix: Water
Analysis Batch: 781915

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	53		10.0	62.7	4	mg/L		95	80 - 120	1	15
Fluoride	<0.040	F1	2.00	1.03	F1	mg/L		51	80 - 120	1	15
Sulfate	0.49	J	10.0	10.1		mg/L		96	80 - 120	3	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-781903/1-A
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		06/05/23 09:00	06/06/23 03:33	1
Calcium	<0.14		0.50	0.14	mg/L		06/05/23 09:00	06/06/23 03:33	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/05/23 09:00	06/06/23 03:33	1

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

Lab Sample ID: MB 680-781903/1-A
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.012		0.10	0.012	mg/L		06/05/23 09:00	06/06/23 03:33	1
Magnesium	<0.023		0.50	0.023	mg/L		06/05/23 09:00	06/06/23 03:33	1
Manganese	<0.0022		0.0050	0.0022	mg/L		06/05/23 09:00	06/06/23 03:33	1
Potassium	0.0642	J	0.50	0.044	mg/L		06/05/23 09:00	06/06/23 03:33	1
Sodium	<0.20		0.50	0.20	mg/L		06/05/23 09:00	06/06/23 03:33	1

Lab Sample ID: LCS 680-781903/2-A
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.185		mg/L		92	80 - 120
Calcium	5.00	5.08		mg/L		102	80 - 120
Cobalt	0.0500	0.0511		mg/L		102	80 - 120
Iron	5.00	4.99		mg/L		100	80 - 120
Magnesium	5.00	5.19		mg/L		104	80 - 120
Manganese	0.400	0.405		mg/L		101	80 - 120
Potassium	7.00	7.51		mg/L		107	80 - 120
Sodium	5.00	5.04		mg/L		101	80 - 120

Lab Sample ID: 680-235792-A-14-B MS
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 781903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<0.022		0.200	0.198		mg/L		99	75 - 125
Calcium	0.88		5.00	5.91		mg/L		101	75 - 125
Cobalt	0.11		0.0500	0.170		mg/L		109	75 - 125
Iron	22		5.00	26.7	4	mg/L		98	75 - 125
Magnesium	1.5		5.00	6.72		mg/L		105	75 - 125
Manganese	8.7		0.400	9.16	4	mg/L		116	75 - 125
Potassium	0.49	J B	7.00	8.17		mg/L		110	75 - 125
Sodium	13		5.00	17.2		mg/L		83	75 - 125

Lab Sample ID: 680-235792-A-14-C MSD
Matrix: Water
Analysis Batch: 782074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 781903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.022		0.200	0.195		mg/L		98	75 - 125	1	20
Calcium	0.88		5.00	5.73		mg/L		97	75 - 125	3	20
Cobalt	0.11		0.0500	0.165		mg/L		100	75 - 125	3	20
Iron	22		5.00	26.0	4	mg/L		83	75 - 125	3	20
Magnesium	1.5		5.00	6.66		mg/L		104	75 - 125	1	20
Manganese	8.7		0.400	8.89	4	mg/L		49	75 - 125	3	20
Potassium	0.49	J B	7.00	8.24		mg/L		111	75 - 125	1	20
Sodium	13		5.00	16.9		mg/L		78	75 - 125	2	20

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

Lab Sample ID: MB 680-781949/1-A
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		06/05/23 10:50	06/06/23 11:43	1

Lab Sample ID: LCS 680-781949/2-A
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Dissolved	0.0500	0.0505		mg/L		101	80 - 120

Lab Sample ID: 680-235793-F-1-E MS
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 781949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Dissolved	0.0011	J	0.0500	0.0614		mg/L		121	75 - 125

Lab Sample ID: 680-235793-F-1-F MSD
Matrix: Water
Analysis Batch: 782213

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 781949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt, Dissolved	0.0011	J	0.0500	0.0585		mg/L		115	75 - 125	5	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-783097/4
Matrix: Water
Analysis Batch: 783097

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<2.2		5.0	2.2	mg/L			06/09/23 19:29	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			06/09/23 19:29	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			06/09/23 19:29	1

Lab Sample ID: LCS 680-783097/6
Matrix: Water
Analysis Batch: 783097

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	250	248		mg/L		99	90 - 112

Lab Sample ID: LCSD 680-783097/31
Matrix: Water
Analysis Batch: 783097

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	250	249		mg/L		100	90 - 112	1	30

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 680-235776-3 DU
Matrix: Water
Analysis Batch: 783097

Client Sample ID: SCH-TW-20C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	24		21.7		mg/L		10	30
Bicarbonate Alkalinity as CaCO3	24		21.7		mg/L		10	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-782179/1
Matrix: Water
Analysis Batch: 782179

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.0		5.0	5.0	mg/L			06/06/23 12:50	1

Lab Sample ID: LCS 680-782179/2
Matrix: Water
Analysis Batch: 782179

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2410	2400		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-782179/3
Matrix: Water
Analysis Batch: 782179

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2410	2380		mg/L		99	80 - 120	1	25

Lab Sample ID: 680-235705-C-6 DU
Matrix: Water
Analysis Batch: 782179

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1400		1410		mg/L		2	5

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-781945/1-A
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10	10	mg/L		06/05/23 10:50	06/05/23 14:48	1

Lab Sample ID: LCS 680-781945/2-A
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	208	188		mg/L		90	50 - 150

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCSD 680-781945/3-A
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 781945

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			208	162		mg/L		78	50 - 150	15	50

Lab Sample ID: 680-235511-H-4-B MS
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	96		208	306		mg/L		101	50 - 150		

Lab Sample ID: 680-235511-H-4-C MSD
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	96		208	309		mg/L		102	50 - 150	1	50

Lab Sample ID: 680-235511-H-3-B DU
Matrix: Water
Analysis Batch: 782020

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 781945

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	130		134		mg/L				3	50

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235776-1

HPLC/IC

Analysis Batch: 781915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total/NA	Water	300.0-1993 R2.1	
680-235776-2	SCH-TW-20B	Total/NA	Water	300.0-1993 R2.1	
680-235776-3	SCH-TW-20C	Total/NA	Water	300.0-1993 R2.1	
680-235776-4	SCH-TW-20D	Total/NA	Water	300.0-1993 R2.1	
680-235776-5	SCH-AP1-EB-2	Total/NA	Water	300.0-1993 R2.1	
MB 680-781915/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-781915/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-781915/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-235680-L-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-235680-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 781903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total Recoverable	Water	3005A	
680-235776-2	SCH-TW-20B	Total Recoverable	Water	3005A	
680-235776-3	SCH-TW-20C	Total Recoverable	Water	3005A	
680-235776-4	SCH-TW-20D	Total Recoverable	Water	3005A	
680-235776-5	SCH-AP1-EB-2	Total Recoverable	Water	3005A	
MB 680-781903/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-781903/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-235792-A-14-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-235792-A-14-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 781949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Dissolved	Water	3005A	
680-235776-2	SCH-TW-20B	Dissolved	Water	3005A	
680-235776-3	SCH-TW-20C	Dissolved	Water	3005A	
680-235776-4	SCH-TW-20D	Dissolved	Water	3005A	
680-235776-5	SCH-AP1-EB-2	Dissolved	Water	3005A	
MB 680-781949/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-781949/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-235793-F-1-E MS	Matrix Spike	Dissolved	Water	3005A	
680-235793-F-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 782074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total Recoverable	Water	6020B	781903
680-235776-2	SCH-TW-20B	Total Recoverable	Water	6020B	781903
680-235776-3	SCH-TW-20C	Total Recoverable	Water	6020B	781903
680-235776-4	SCH-TW-20D	Total Recoverable	Water	6020B	781903
680-235776-5	SCH-AP1-EB-2	Total Recoverable	Water	6020B	781903
MB 680-781903/1-A	Method Blank	Total Recoverable	Water	6020B	781903
LCS 680-781903/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781903
680-235792-A-14-B MS	Matrix Spike	Total Recoverable	Water	6020B	781903
680-235792-A-14-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	781903

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235776-1

Metals

Analysis Batch: 782213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Dissolved	Water	6020B	781949
680-235776-2	SCH-TW-20B	Dissolved	Water	6020B	781949
680-235776-3	SCH-TW-20C	Dissolved	Water	6020B	781949
680-235776-4	SCH-TW-20D	Dissolved	Water	6020B	781949
680-235776-5	SCH-AP1-EB-2	Dissolved	Water	6020B	781949
MB 680-781949/1-A	Method Blank	Total Recoverable	Water	6020B	781949
LCS 680-781949/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781949
680-235793-F-1-E MS	Matrix Spike	Dissolved	Water	6020B	781949
680-235793-F-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	781949

General Chemistry

Analysis Batch: 781888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total/NA	Water	SM 3500	
680-235776-2	SCH-TW-20B	Total/NA	Water	SM 3500	
680-235776-3	SCH-TW-20C	Total/NA	Water	SM 3500	
680-235776-4	SCH-TW-20D	Total/NA	Water	SM 3500	

Prep Batch: 781945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total/NA	Water	9030B	
680-235776-2	SCH-TW-20B	Total/NA	Water	9030B	
680-235776-3	SCH-TW-20C	Total/NA	Water	9030B	
680-235776-4	SCH-TW-20D	Total/NA	Water	9030B	
680-235776-5	SCH-AP1-EB-2	Total/NA	Water	9030B	
MB 680-781945/1-A	Method Blank	Total/NA	Water	9030B	
LCS 680-781945/2-A	Lab Control Sample	Total/NA	Water	9030B	
LCSD 680-781945/3-A	Lab Control Sample Dup	Total/NA	Water	9030B	
680-235511-H-4-B MS	Matrix Spike	Total/NA	Water	9030B	
680-235511-H-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	
680-235511-H-3-B DU	Duplicate	Total/NA	Water	9030B	

Analysis Batch: 782020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total/NA	Water	9034	781945
680-235776-2	SCH-TW-20B	Total/NA	Water	9034	781945
680-235776-3	SCH-TW-20C	Total/NA	Water	9034	781945
680-235776-4	SCH-TW-20D	Total/NA	Water	9034	781945
680-235776-5	SCH-AP1-EB-2	Total/NA	Water	9034	781945
MB 680-781945/1-A	Method Blank	Total/NA	Water	9034	781945
LCS 680-781945/2-A	Lab Control Sample	Total/NA	Water	9034	781945
LCSD 680-781945/3-A	Lab Control Sample Dup	Total/NA	Water	9034	781945
680-235511-H-4-B MS	Matrix Spike	Total/NA	Water	9034	781945
680-235511-H-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	781945
680-235511-H-3-B DU	Duplicate	Total/NA	Water	9034	781945

Analysis Batch: 782179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total/NA	Water	2540C-2011	
680-235776-2	SCH-TW-20B	Total/NA	Water	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 782179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-3	SCH-TW-20C	Total/NA	Water	2540C-2011	
680-235776-4	SCH-TW-20D	Total/NA	Water	2540C-2011	
680-235776-5	SCH-AP1-EB-2	Total/NA	Water	2540C-2011	
MB 680-782179/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-782179/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-782179/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-235705-C-6 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 783097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total/NA	Water	2320B-2011	
680-235776-2	SCH-TW-20B	Total/NA	Water	2320B-2011	
680-235776-3	SCH-TW-20C	Total/NA	Water	2320B-2011	
680-235776-4	SCH-TW-20D	Total/NA	Water	2320B-2011	
680-235776-5	SCH-AP1-EB-2	Total/NA	Water	2320B-2011	
MB 680-783097/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-783097/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-783097/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-235776-3 DU	SCH-TW-20C	Total/NA	Water	2320B-2011	

Field Service / Mobile Lab

Analysis Batch: 782507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235776-1	SCH-TW-20A	Total/NA	Water	Field Sampling	
680-235776-2	SCH-TW-20B	Total/NA	Water	Field Sampling	
680-235776-3	SCH-TW-20C	Total/NA	Water	Field Sampling	
680-235776-4	SCH-TW-20D	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Job ID: 680-235776-1
Project/Site: CCR - Plant Scherer Temporary Wells

Client Sample ID: SCH-TW-20A
Lab Sample ID: 680-235776-1
Date Collected: 06/01/23 13:43
Matrix: Water
Date Received: 06/03/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781915	06/05/23 22:26	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781949	06/05/23 10:50	RR	EET SAV
Dissolved	Analysis	6020B		1			782213	06/06/23 12:32	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781903	06/05/23 09:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/06/23 04:59	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 21:18	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	06/01/23 13:43	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-20B
Lab Sample ID: 680-235776-2
Date Collected: 06/01/23 13:28
Matrix: Water
Date Received: 06/03/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781915	06/05/23 22:39	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781949	06/05/23 10:50	RR	EET SAV
Dissolved	Analysis	6020B		1			782213	06/06/23 12:40	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781903	06/05/23 09:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/06/23 05:11	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 22:25	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	06/01/23 13:28	P1C	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-235776-1
Project/Site: CCR - Plant Scherer Temporary Wells

Client Sample ID: SCH-TW-20C
Lab Sample ID: 680-235776-3
Date Collected: 06/01/23 10:30
Matrix: Water
Date Received: 06/03/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781915	06/05/23 22:52	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781949	06/05/23 10:50	RR	EET SAV
Dissolved	Analysis	6020B		1			782213	06/06/23 12:44	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781903	06/05/23 09:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/06/23 05:15	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 21:49	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	06/01/23 10:30	P1C	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SCH-TW-20D
Lab Sample ID: 680-235776-4
Date Collected: 06/01/23 11:58
Matrix: Water
Date Received: 06/03/23 07:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781915	06/05/23 23:04	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781949	06/05/23 10:50	RR	EET SAV
Dissolved	Analysis	6020B		1			782213	06/06/23 12:36	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781903	06/05/23 09:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/06/23 05:19	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 22:16	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	SM 3500		1			781888	06/08/23 08:43	TJW	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			782507	06/01/23 11:58	P1C	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235776-1

Client Sample ID: SCH-AP1-EB-2

Date Collected: 06/01/23 13:30
Date Received: 06/03/23 07:00

Lab Sample ID: 680-235776-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781915	06/05/23 23:17	UI	EET SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			25 mL	125 mL	781949	06/05/23 10:50	RR	EET SAV
Dissolved	Analysis	6020B		1			782213	06/06/23 12:48	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	781903	06/05/23 09:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			782074	06/06/23 05:23	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			783097	06/09/23 22:38	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	782179	06/06/23 12:50	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	781945	06/05/23 10:50	JAS	EET SAV
Total/NA	Analysis	9034		1	6 mL	6 mL	782020	06/05/23 14:48	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-235776-1
Project/Site: CCR - Plant Scherer Temporary Wells

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-23
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	06-30-23
Kentucky (UST)	State	NA	06-30-23
Louisiana	NELAP	30690	06-30-23
Louisiana (All)	NELAP	30690	06-30-23
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wyoming	State	8TMS-L	06-30-23

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer Temporary Wells

Job ID: 680-235776-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET SAV
SM 3500	Iron, Ferric	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

244 - ATLANTA

Client Information	Sampler: Mark Mann	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: Joju Abraham	Phone: 706-755-3862	E-Mail: David Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:

Address	Due Date Requested	Analysis Requested
241 Ralph McGill Blvd SE B10185		
City: Atlanta	TAT Requested (days):	
State Zip: GA, 30308	Compliance Project: Δ Yes Δ No	
Phone:	Lab Project #: (DO NOT REMOVE) 68027798	
Email: JAbraham@southernco com	Lab PO #: GPC82130-0003 / PO Line #1	
Project Name: Project Name CCR - Plant Scherer Temporary Wells	Project #:	
Site:	SSOW#:	

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride, Fluoride, Sulfate	2320B - Alkalinity, Total, Carb/Bicarb	6020B - App III + Co, Fe, Mg, Mn, K, Na	2540C - Solids, Total Dissolved (TDS)	9034 - Sulfide (FILL BOTTLES COMPLETELY)	6020B - Dissolved App III + Co, Fe, Mg, Mn, K, Na (field filtered)	Field Sampling - pH & Ferrous Iron (Fe+2)	3500_Fe+3_D_Cal - Ferric Iron (Calculated)	6020B - Dissolved Co (field filtered)					Total Number of containers	Task_Code SCH-CCR-CA-20230522 Special Instructions/Notes
			Preservation Code				N	N	D	N	CB	D	N	N	D						
SCH-TW-20A	6/1/23	13 43	G	WG	X		X	X	X	X	X		X	X	X					7	pH = 6.12, Fe+2 = 0.0 @13:48
SCH-TW-20B	6/1/23	13 28	G	WG	X		X	X	X	X	X		X	X	X					7	pH = 5.93, Fe+2 = 0.0 @13:33
SCH-TW-20C	6/1/23	10 30	G	WG	X		X	X	X	X	X		X	X	X					7	pH = 5.69, Fe+2 = 0.1. @10:35
SCH-TW-20D	6/1/23	11 58	G	WG	X		X	X	X	X	X		X	X	X					7	pH = 5.31, Fe+2 = 0.0 @ 12:03
SCH-AP1-EB-2	6/1/23	13 30	G	WQ	X		X	X	X	X	X		X	X	X					7	

680-235776 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A ... **than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
MARK MANN	06/02/2023 1152	WSP		6/2/23 11:52	
	6/2/23 16:00			6/13/23 07:00	

Custody Seals Intact Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks
		2.0 | 1.8

6/15/2023 (Rev. 1)
Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-235776-1

Login Number: 235776
List Number: 1
Creator: Drake, Victoria

List Source: Eurofins Savannah

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

Appendix C
Transect Soil Boring Investigation Boring Logs

RECORD OF BOREHOLE SB-15-E-1-D

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/23/23
DATE COMPLETED: 4/23/23

NORTHING: 1,120,189.81
EASTING: 2,407,161.34
GS ELEVATION: 480.9'
TOC ELEVATION: 482.84'

DEPTH W.L.: 25.35' bgs
ELEVATION W.L.: 455.55 ft
DATE W.L.:4/23/23
TIME W.L.:1514

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	480	0.00 - 10.00 Dry, compact, non-cohesive, red, SILT with Clay, with trace Organic matter.	MH		470.9	1		10.00 / 10.00	SCH-TW-15C-D Riser	**WELL CASING** Interval: 0'-49.8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded **WELL SCREEN** Interval: 49.8'-54.8' Material: Slotted PVC Diameter: 2" Slot Size: 0.010" End Cap: 3" **FILTER PACK** Interval: 47.2'-54.8' Type: No. 2 SAND Quantity: 4 x 0.5 cubic ft bags **FILTER PACK SEAL** Interval: N/A Type: N/A Quantity: N/A **ANNULUS SEAL** Interval: 0'-47.2' Type: Halliburton 3/8" Bentonite chips Quantity: 19.5 bags **WELL COMPLETION** Pad: N/A Protective Casing: N/A **DRILLING METHODS** Soil Drill: Direct Push Rock Drill: N/A Sample Type: Hydraulic Push
5	475									
10	470	10.00 - 14.00 Dry, compact, non-cohesive, orange, SILT with Clay, with trace Sand.	MH		10.00 466.9	2		5.00 / 5.00		
15	465	14.00 - 15.00 Dry, loose to compact, non-cohesive, orange, SAND with some Silt and Clay. 15.00 - 22.00 Same as above. (SAA)	SC		14.00 465.9 15.00	3		4.00 / 5.00	Bentonite	
20	460		SC		458.9	4		3.60 / 5.00		
		22.00 - 25.00 Dry, loose, non-cohesive, orange to tan, SAND with some Clay, trace Silt.	SC		22.00 455.9					
25	455	25.00 - 30.00 Dry, loose to compact, non-cohesive, orange to red, SAND with some Clay with interbedded sandy clay layers, trace black Organics.	SC		25.00 450.9	5		3.70 / 5.00		
30	450	30.00 - 33.50 Moist to wet, loose to compact, non-cohesive, orange, Clayey SAND, with trace Organics.	SC		30.00 447.4	6		2.30 / 5.00		
		33.50 - 35.00 Moist to wet, loose, non-cohesive, orange with black, white and pink, SAND with some Clay, micaceous, with relic bands of saprolite.	SC		33.50 445.9					
35	445	35.00 - 45.00 SAA, wet.	SC		35.00	7		5.00 / 5.00		
40	440		SC			8		5.00 / 5.00		
45	435	45.00 - 50.00 Moist to wet, compact, non-cohesive, Clayey SAND, with trace black Organic matter, micaceous.	SC		435.9 45.00 430.9	9		4.60 / 5.00	Filter pack No. 2 Sand	
50		Log continued on next page								

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-E-1-D

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/23/23
DATE COMPLETED: 4/23/23

NORTHING: 1,120,189.81
EASTING: 2,407,161.34
GS ELEVATION: 480.9
TOC ELEVATION: 482.84 ft

DEPTH W.L.:25.35' bgs
ELEVATION W.L.: 455.55 ft
DATE W.L.:4/23/23
TIME W.L.:1514

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES
50	430	50.00 - 53.50 Wet, very loose, non-cohesive, black to gray, with orange streaks, fine to coarse SAND with trace Gravel.	SW		50.00 427.4	10		4.80 5.00	Screen –
		53.50 - 55.00 SAA, moist, with white layers of quartz.	SW		53.50 425.9				
55	425	Boring completed at 55.00 ft							Pre-Development W.L.: 28.2' bgs
60	420								
65	415								
70	410								
75	405								
80	400								
85	395								
90	390								
95	385								
100									

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-49.8'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 49.8'-54.8'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 47.2'-54.8'
Type: No. 2 SAND
Quantity: 4 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-47.2'
Type: Halliburton 3/8" Bentonite chips
Quantity: 19.5 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-E-1-S

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/23/23
DATE COMPLETED: 4/23/23

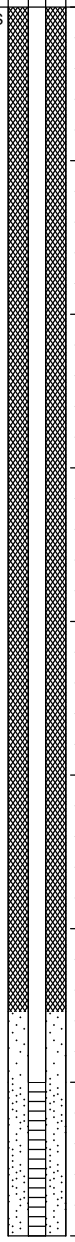
NORTHING: 1,120,194.11
EASTING: 2,407,162.60
GS ELEVATION: 481.2
TOC ELEVATION: 483.39 ft

DEPTH W.L.:30.5' bgs
ELEVATION W.L.: 450.7 ft
DATE W.L.:4/25/23
TIME W.L.:1600

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	480	0.00 - 10.00 Dry, compact, non-cohesive, red, SILT with Clay, with trace Organic matter.	MH		471.2	1		10.00 / 10.00
10	470	10.00 - 14.00 Dry, compact, non-cohesive, orange, SILT with Clay, with trace Sand.	MH		10.00 467.2	2		5.00 / 5.00
15	465	14.00 - 15.00 Dry, loose to compact, non-cohesive, orange, SAND with some Silt and Clay. 15.00 - 22.00 Same as above. (SAA)	SC		14.00 466.2 15.00	3		4.00 / 5.00
20	460		SC		459.2	4		3.60 / 5.00
25	455	22.00 - 25.00 Dry, loose, non-cohesive, orange to tan, SAND with some Clay, trace Silt. 25.00 - 30.00 Dry, loose to compact, non-cohesive, orange to red, SAND with some Clay with interbedded sandy clay layers, trace black Organics.	SC		22.00 456.2 25.00	5		3.70 / 5.00
30	450	30.00 - 33.50 Moist to wet, loose to compact, non-cohesive, orange, Clayey SAND, with trace Organics.	SC		451.2 30.00	6		2.30 / 5.00
35	445	33.50 - 35.00 Moist to wet, loose, non-cohesive, orange with black, white and pink, SAND with some Clay, micaceous, with relic bands of saprolite. 35.00 - 45.00 SAA, wet.	SC		447.7 33.50 446.2 35.00	7		5.00 / 5.00
40	440		SC			8		5.00 / 5.00
45	435	45.00 - 50.00 Moist to wet, compact, non-cohesive, Clayey SAND, with trace black Organic matter, micaceous.	SC		436.2 45.00	9		4.60 / 5.00
50					431.2			

Log continued on next page

MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-35'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 35'-40'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 32.7'-40'
Type: No. 2 SAND
Quantity: 4 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-32.7'
Type: Halliburton 3/8" Bentonite chips
Quantity: 14.5 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-E-1-S

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/23/23
DATE COMPLETED: 4/23/23

NORTHING: 1,120,194.11
EASTING: 2,407,162.60
GS ELEVATION: 481.2
TOC ELEVATION: 483.39 ft

DEPTH W.L.:30.5' bgs
ELEVATION W.L.: 450.7 ft
DATE W.L.:4/25/23
TIME W.L.:1600

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50	430	50.00 - 53.50 Wet, very loose, non-cohesive, black to gray, with orange streaks, fine to coarse SAND with trace Gravel.	SW		50.00 / 427.7	10		4.80 / 5.00		
		53.50 - 55.00 SAA, moist, with white layers of quartz.	SW		53.50 / 426.2					
55	425	Boring completed at 55.00 ft								
60	420									
65	415									
70	410									
75	405									
80	400									
85	395									
90	390									
95	385									
100										

WELL CASING
Interval: 0'-35'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 35'-40'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 32.7'-40'
Type: No. 2 SAND
Quantity: 4 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-32.7'
Type: Halliburton 3/8" Bentonite chips
Quantity: 14.5 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-E-3

SHEET 1 of 2

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 64.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/24/23
DATE COMPLETED: 4/24/23

not surveyed
GS ELEVATION:
TOC ELEVATION:

DEPTH W.L.:31.4' bgs
ELEVATION W.L.: N/A
DATE W.L.:4/24/23
TIME W.L.:1010

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 10.00 Dry, compact, non-cohesive, red, SILT, SAND, and CLAY.	SC-SM			1		10.00 / 10.00		
10		10.00 - 15.00 Moist, stiff, cohesive, red, CLAY, with some Silt, some Sand.	CL		10.00	2		3.00 / 5.00		
15		15.00 - 20.00 Same as above (SAA), with slight increase of Sand.	CL		15.00	3		4.20 / 5.00		
20		20.00 - 25.00 Dry, loose to compact, non-cohesive, orange, fine SAND, with some Clay.	SC		20.00	4		3.80 / 5.00		
25		25.00 - 32.50 SAA	SC		25.00	5		4.10 / 5.00		
30						6		3.50 / 5.00		
		32.50 - 35.00 Dry to moist, loose to compact, orange mottled black and white, CLAY with some Sand, trace Silt, trace black Organic matter.	CL		32.50					
35		35.00 - 45.00 SAA, with relic banding structures.	CL		35.00	7		4.40 / 5.00		
40						8		4.00 / 5.00		
45		45.00 - 46.50 SAA, wet.	CL		45.00	9		4.20 / 5.00		
		46.50 - 50.00 SAA, moist.	CL		46.50					
50		Log continued on next page								

WELL CASING
Interval: N/A
Material: N/A
Diameter: N/A
Joint Type: N/A

WELL SCREEN
Interval: N/A
Material: N/A
Diameter: N/A
Slot Size: N/A
End Cap: N/A

FILTER PACK
Interval: N/A
Type: N/A
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: N/A
Type: N/A
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-E-3

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 64.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/24/23
DATE COMPLETED: 4/24/23

not surveyed
GS ELEVATION:
TOC ELEVATION:

DEPTH W.L.:31.4' bgs
ELEVATION W.L.: N/A
DATE W.L.:4/24/23
TIME W.L.:1010

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 54.60 SAA, moist to wet.	CL		50.00	10		3.20/5.00		
55		54.60 - 55.00 Moist to wet, compact, non-cohesive, gray with black specks, fine SAND, with some Clay, trace mica.	SC		55.00					
		55.00 - 60.00 SAA, wet.	SC			11		3.80/5.00		
60		60.00 - 64.00 Wet, compact, non-cohesive, black and white banded, fine to coarse SAND, some mica.	SW		60.00	12		2.60/4.00		
		Boring completed at 64.00 ft								
65										
70										
75										
80										
85										
90										
95										
100										

WELL CASING
Interval: N/A
Material: N/A
Diameter: N/A
Joint Type: N/A

WELL SCREEN
Interval: N/A
Material: N/A
Diameter: N/A
Slot Size: N/A
End Cap: N/A

FILTER PACK
Interval: N/A
Type: N/A
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: N/A
Type: N/A
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

RECORD OF BOREHOLE SB-15-N-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

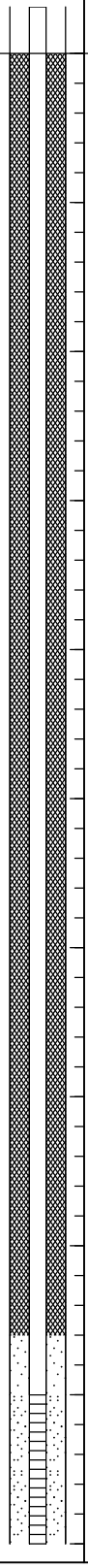
DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/26/23
DATE COMPLETED: 4/26/23

NORTHING: 1,120,256.62
EASTING: 2,407,040.85
GS ELEVATION: 478.6
TOC ELEVATION: 480.34 ft

DEPTH W.L.:27.7' bgs
ELEVATION W.L.: 450.9 ft
DATE W.L.:4/26/23
TIME W.L.:1230

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0		0.00 - 20.00 Dry, non-cohesive, compact, orange fine SAND, some Silt, some Clay, trace organic matter.						
	475							
5						1		10.00 / 10.00
	470							
10			SP			2		2.30 / 5.00
	465							
15						3		3.60 / 5.00
	460							
20					458.6			
		20.00 - 25.00 SAA, dry to moist.	SP		20.00	4		3.20 / 5.00
	455							
25					453.6			
		25.00 - 30.00 SAA, moist to wet.	SP		25.00	5		5.00 / 5.00
	450							
30					448.6			
		30.00 - 35.00 SAA, wet.	SP		30.00	6		5.00 / 5.00
	445							
35					443.6			
		35.00 - 45.00 Wet, non-cohesive, loose, orange fine SAND, with trace bitotite, with trace mica.			35.00	7		4.70 / 5.00
	440							
40			SP			8		5.00 / 5.00
	435							
45					433.6			
		45.00 - 50.00 Moist to wet, non-cohesive, loose, orange fine to coarse SAND, with trace Clay, trace gravel, trace biotite and mica.	SW		45.00	9		5.00 / 5.00
	430							
50					428.6			
		Log continued on next page						

MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-45'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 45'-55'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 43'-45'
Type: No. 2 SAND
Quantity: 5 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-43'
Type: Halliburton 3/8" Bentonite chips
Quantity: 18 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-N-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/26/23
DATE COMPLETED: 4/26/23

NORTHING: 1,120,256.62
EASTING: 2,407,040.85
GS ELEVATION: 478.6
TOC ELEVATION: 480.34 ft

DEPTH W.L.:27.7' bgs
ELEVATION W.L.: 450.9 ft
DATE W.L.:4/26/23
TIME W.L.:1230

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 55.00 Moist to wet, non-cohesive, loose, orange tan with black fine to coarse SAND, with some Clay mottling, with trace biotite, trace mica, with relic schistic/gneissic banding.	SW		50.00	10		4.30/5.00	Screen	**WELL CASING** Interval: 0'-45' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded **WELL SCREEN** Interval: 45'-55' Material: Slotted PVC Diameter: 2" Slot Size: 0.010" End Cap: 3" **FILTER PACK** Interval: 43'-55' Type: No. 2 SAND Quantity: 5 x 0.5 cubic ft bags **FILTER PACK SEAL** Interval: N/A Type: N/A Quantity: N/A **ANNULUS SEAL** Interval: 0'-43' Type: Halliburton 3/8" Bentonite chips Quantity: 18 bags **WELL COMPLETION** Pad: N/A Protective Casing: N/A **DRILLING METHODS** Soil Drill: Direct Push Rock Drill: N/A Sample Type: Hydraulic Push
55	425	Boring completed at 55.00 ft			423.6					
60	420									
65	415									
70	410									
75	405									
80	400									
85	395									
90	390									
95	385									
100	380									

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-W-1-D

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 53.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/21/23
DATE COMPLETED: 4/21/23

NORTHING: 1,120,189.12
EASTING: 2,407,027.84
GS ELEVATION: 478.0
TOC ELEVATION: 479.45 ft

DEPTH W.L.:23.31' bgs
ELEVATION W.L.: 454.69 ft
DATE W.L.:5/23/23
TIME W.L.:1553

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0		0.00 - 20.00 Dry to moist, red mottled orange, tan streaks, SAND and CLAY.						
	475							
5						1		10.00 / 10.00
	470							
10			SC-CL			2		5.00 / 5.00
	465							
15						3		4.00 / 5.00
	460							
20					458			
		20.00 - 25.00 Moist, orange, with white and tan streaks, SAND and CLAY, micaceous.	SC-CL		20.00	4		5.00 / 5.00
	455							
25					453			
		25.00 - 30.00 Same as above (SAA), wet.	SC-CL		25.00	5		4.75 / 5.00
	450							
30					448			
		30.00 - 35.00 Wet, orange mottled red, Sandy CLAY, with black inclusions.	CL		30.00	6		5.00 / 5.00
	445							
35					443			
		35.00 - 40.00 Wet, orange mottled red, Silty SAND, with black inclusions.	SM		35.00	7		5.00 / 5.00
	440							
40					438			
		40.00 - 45.00 Wet, orange mottled brown and tan, with black and gray streaks, Silty SAND, micaceous.	SM		40.00	8		5.00 / 5.00
	435							
45					433			
		45.00 - 50.00 Wet, orange mottled brown, Clayey SAND, with black inclusions, micaceous.	SC		45.00	9		5.00 / 5.00
	430							
50					428			

Log continued on next page

MONITORING WELL DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-48'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 48'-53'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 45.8'-53'
Type: No. 2 SAND
Quantity: 2 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-45.8'
Type: Halliburton 3/8" Betonite chips
Quantity: 19 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: J. Booth
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-W-1-D

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 53.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/21/23
DATE COMPLETED: 4/21/23

NORTHING: 1,120,189.12
EASTING: 2,407,027.84
GS ELEVATION: 478.0
TOC ELEVATION: 479.45 ft

DEPTH W.L.:23.31' bgs
ELEVATION W.L.: 454.69 ft
DATE W.L.:5/23/23
TIME W.L.:1553

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 53.00 SAA	SC		50.00	10		3.00 / 3.00		
	425	Boring completed at 53.00 ft			425					
55	420									
60	415									
65	410									
70	405									
75	400									
80	395									
85	390									
90	385									
95	380									
100										

WELL CASING
Interval: 0'-48'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 48'-53'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 45.8'-53'
Type: No. 2 SAND
Quantity: 2 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-45.8'
Type: Halliburton 3/8" Betonite chips
Quantity: 19 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: J. Booth
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-W-1-S

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 53.00 ft
LOCATION: Juliette, GA

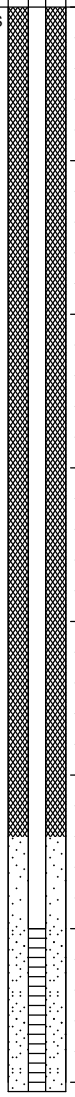
DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/21/23
DATE COMPLETED: 4/21/23

NORTHING: 1,120,190.83
EASTING: 2,407,024.45
GS ELEVATION: 478.1
TOC ELEVATION: 480.51 ft

DEPTH W.L.:20.7' bgs
ELEVATION W.L.: 457.4 ft
DATE W.L.:4/22/23
TIME W.L.:1215

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	475	0.00 - 20.00 Dry to moist, red mottled orange, tan streaks, SAND and CLAY.	SC-CL			1		10.00 / 10.00
5	470							
10	465					2		5.00 / 5.00
15	460				458.1	3		4.00 / 5.00
20	455	20.00 - 25.00 Moist, orange, with white and tan streaks, SAND and CLAY, micaceous.	SC-CL		20.00 453.1	4		5.00 / 5.00
25	450	25.00 - 30.00 Same as above (SAA), wet.	SC-CL		25.00 448.1	5		4.75 / 5.00
30	445	30.00 - 35.00 Wet, orange mottled red, Sandy CLAY, with black inclusions.	CL		30.00 443.1	6		5.00 / 5.00
35	440	35.00 - 40.00 Wet, orange mottled red, Silty SAND, with black inclusions.	SM		35.00 438.1	7		5.00 / 5.00
40	435	40.00 - 45.00 Wet, orange mottled brown and tan, with black and gray streaks, Silty SAND, micaceous.	SM		40.00 433.1	8		5.00 / 5.00
45	430	45.00 - 50.00 Wet, orange mottled brown, Clayey SAND, with black inclusions, micaceous.	SC		45.00 428.1	9		5.00 / 5.00
50		Log continued on next page						

MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-30'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 30'-35'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 27'-35.3'
Type: No. 2 SAND
Quantity: 4.5 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-27'
Type: Halliburton 3/8" Bentonite chips
Quantity: 19 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: J. Booth
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-W-1-S

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 53.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/21/23
DATE COMPLETED: 4/21/23

NORTHING: 1,120,190.83
EASTING: 2,407,024.45
GS ELEVATION: 478.1
TOC ELEVATION: 480.51 ft

DEPTH W.L.:20.7' bgs
ELEVATION W.L.: 457.4 ft
DATE W.L.:4/22/23
TIME W.L.:1215

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 53.00 SAA	SC		50.00	10		3.00 / 3.00		
	425	Boring completed at 53.00 ft			425.1					
55										
	420									
60										
	415									
65										
	410									
70										
	405									
75										
	400									
80										
	395									
85										
	390									
90										
	385									
95										
	380									
100										

WELL CASING
Interval: 0'-30'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 30'-35'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 27'-35.3'
Type: No. 2 SAND
Quantity: 4.5 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-27'
Type: Halliburton 3/8" Bentonite chips
Quantity: 19 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: J. Booth
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-15-W-2

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 56.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/20/23
DATE COMPLETED: 4/20/23

not surveyed
GS ELEVATION:
TOC ELEVATION:

DEPTH W.L.:24.0' bgs
ELEVATION W.L.: N/A
DATE W.L.:4/20/2023
TIME W.L.:1330

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 10.00 Dry, cohesive, red Sandy CLAY, with trace Organics.	CL			1		10.00/10.00		
10		10.00 - 15.00 Dry, cohesive, red orange Sandy CLAY.	CL		10.00	2		3.25/5.00		
15		15.00 - 20.00 Same as above (SAA), with black clay inclusions.	CL		15.00	3		3.50/5.00		
20		20.00 - 25.00 Dry, cohesive, mottled red and orange Sandy CLAY, with white and black clay inclusions.	CL		20.00	4		2.50/5.00		
25		25.00 - 30.00 SAA.	CL		25.00	5		2.50/5.00		
30		30.00 - 35.00 SAA, wet with trace white clay inclusions.	CL		30.00	6		2.50/5.00		
35		35.00 - 40.00 SAA, wet.	CL		35.00	7		4.50/5.00		
40		40.00 - 45.00 No Recovery - soil assumed to have the same soil properties as above.	CL		40.00	8		0.00/5.00		
45		45.00 - 50.00 Wet, cohesive, grey brown Clayey SAND.	SC		45.00	9		5.00/5.00		
50		Log continued on next page								

WELL CASING
Interval: N/A
Material: N/A
Diameter: N/A
Joint Type: N/A

WELL SCREEN
Interval: N/A
Material: N/A
Diameter: N/A
Slot Size: N/A
End Cap: N/A

FILTER PACK
Interval: N/A
Type: N/A
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: N/A
Type: N/A
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: J. Booth
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

RECORD OF BOREHOLE SB-15-W-2

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 56.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/20/23
DATE COMPLETED: 4/20/23

not surveyed
GS ELEVATION:
TOC ELEVATION:

DEPTH W.L.:24.0' bgs
ELEVATION W.L.: N/A
DATE W.L.:4/20/2023
TIME W.L.:1330

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 56.00 SAA	SC		50.00	10		4.00 5.00		
55						11		1.00 1.00		
		Boring completed at 56.00 ft								
60										
65										
70										
75										
80										
85										
90										
95										
100										

WELL CASING
Interval: N/A
Material: N/A
Diameter: N/A
Joint Type: N/A

WELL SCREEN
Interval: N/A
Material: N/A
Diameter: N/A
Slot Size: N/A
End Cap: N/A

FILTER PACK
Interval: N/A
Type: N/A
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: N/A
Type: N/A
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: J. Booth
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-18-N-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/26/23
DATE COMPLETED: 4/26/23

NORTHING: 1,117,003.68
EASTING: 2,406,943.25
GS ELEVATION: 508.6
TOC ELEVATION: 509.74 ft

DEPTH W.L.:36.59' bgs
ELEVATION W.L.: 472.01 ft
DATE W.L.:5/23/23
TIME W.L.:1015

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0	508.6	0.00 - 20.00 Dry, compact, non-cohesive, orange, fine SAND, CLAY, and SILT, with trace Organic material.	SC			1		10.00/10.00	SCH-TW-18C	**WELL CASING** Interval: 0'-48' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
5	505								Riser	**WELL SCREEN** Interval: 48'-53' Material: Slotted PVC Diameter: 2" Slot Size: 0.010" End Cap: 3"
10	500		SC			2		2.30/5.00		**FILTER PACK** Interval: 42.5'-53' Type: No. 2 SAND Quantity: N/A
15	495					3		3.60/5.00	Betonite	**FILTER PACK SEAL** Interval: N/A Type: N/A Quantity: N/A
20	490	20.00 - 25.00 Same as above, (SAA) dry to moist.	SC		488.6 20.00	4		3.20/5.00		**ANNULUS SEAL** Interval: 0'-42.5' Type: Halliburton 3/8" bentonite chips Quantity: N/A
25	485	25.00 - 30.00 SAA, moist to wet.	SC		483.6 25.00	5		5.00/5.00		**WELL COMPLETION** Pad: N/A Protective Casing: N/A
30	480	30.00 - 35.00 SAA, wet, with trace biotite.	SC		478.6 30.00	6		5.00/5.00		**DRILLING METHODS** Soil Drill: Direct Push Rock Drill: N/A Sample Type: Hydraulic Push
35	475	35.00 - 45.00 Wet, loose, non-cohesive, orange, black, fine SAND, with trace Clay, trace bitiote, micaceous.	SP		473.6 35.00	7		4.70/5.00		
40	470					8		5.00/5.00	Filter pack No. 2 Sand	
45	465	45.00 - 50.00 Moist to wet, loose, non-cohesive, orange, fine to coarse SAND, trace Clay, trace Gravel, trace biotite, slightly micaceous.	SW		463.6 45.00	9		5.00/5.00	Screen	
50	460	Log continued on next page			458.6					

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-18-N-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/26/23
DATE COMPLETED: 4/26/23

NORTHING: 1,117,003.68
EASTING: 2,406,943.25
GS ELEVATION: 508.6
TOC ELEVATION: 509.74 ft

DEPTH W.L.:36.59' bgs
ELEVATION W.L.: 472.01 ft
DATE W.L.:5/23/23
TIME W.L.:1015

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 55.00 Moist to wet, loose, non-cohesive, orange and tan to black mottling, with white streaks, fine to coarse SAND, some Gravel, trace Clay, trace Biotite, slightly micaceous.	SW		50.00	10		4.30/5.00		
55	455				453.6					
		Boring completed at 55.00 ft								
60	450									
65	445									
70	440									
75	435									
80	430									
85	425									
90	420									
95	415									
100	410									

WELL CASING
Interval: 0'-48'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 48'-53'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 42.5'-53'
Type: No. 2 SAND
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-42.5'
Type: Halliburton 3/8" bentonite chips
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-18-NW-1

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 50.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/10/23
DATE COMPLETED: 4/11/23

NORTHING: 1,116,965.40
EASTING: 2,406,902.84
GS ELEVATION: 508.6
TOC ELEVATION: 511.19 ft

DEPTH W.L.:36.68' bgs
ELEVATION W.L.: 471.92 ft
DATE W.L.:5/23/23
TIME W.L.:1018

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES
0		0.00 - 10.00 Dry, stiff, cohesive, red CLAY.	CL		498.6	1		10.00 10.00	SCH-TW-18A
10		10.00 - 15.00 Dry, stiff, cohesive, red and yellow with white spots, CLAY, some Silt.	CL		10.00 493.6	2		5.00 5.00	
15		15.00 - 20.00 Dry, cohesive, mottled reddish brown with black and white spotting, CLAY, with some Silt and Sand.	CL		15.00 488.6	3		1.00 5.00	Riser
20		20.00 - 25.00 Dry, cohesive, mottled reddish yellow with white streaks and black spotting, SILT with some Sand.	ML		20.00 483.6	4		5.00 5.00	
25		25.00 - 30.00 Dry, cohesive, mottled reddish brown yellow with white and black streaking, SILT with some Clay.	ML		25.00 478.6	5		4.00 5.00	Bentonite
30		30.00 - 35.00 Moist, cohesive, motted red, yellow, with white and black streaks, Clayey SILT.	ML		30.00 473.6	6		3.50 5.00	
35		35.00 - 40.00 Moist to wet, cohesive, mottled red, yellow, brown, with white and black streaks, SILT.	ML		35.00 468.6	7		5.00 5.00	Filter pack No. 2 Sand
40		40.00 - 45.00 Wet, cohesive, mottled red brown with white and black streaking, Sandy SILT.	ML		40.00 463.6	8		5.00 5.00	Screen
45		45.00 - 50.00 Same as above (SAA).	ML		45.00 458.6	9		5.00 5.00	
50		Boring completed at 50.00 ft							

ELEVATION (ft): 505, 500, 495, 490, 485, 480, 475, 470, 465, 460

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-40
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 40'-50'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 38'-50'
Type: No. 2 SAND
Quantity: 8 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-38'
Type: Halliburton 3/8" bentonite chips
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mayer
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-18-NW-3

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 40.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/11/23
DATE COMPLETED: 4/12/23

NORTHING: 1,117,023.66
EASTING: 2,406,812.55
GS ELEVATION: 506.4
TOC ELEVATION: 508.00 ft

DEPTH W.L.:30.30' bgs
ELEVATION W.L.: 476.1 ft
DATE W.L.:5/25/23
TIME W.L.:0900

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	505	0.00 - 10.00 Dry, stiff, cohesive, mottled red and yellow, CLAY, little to some Silt increasing with depth, micaceous.	CL		496.4	1		10.00 / 10.00
10	495	10.00 - 15.00 Dry, cohesive, mottled red and yellow, CLAY, some Silt, micaceous.	CL		10.00 491.4	2		5.00 / 5.00
15	490	15.00 - 20.00 Dry, cohesive, mottled reddish yellow, with white and black spotting, micaceous, SILT.	ML		15.00 486.4	3		4.50 / 5.00
20	485	20.00 - 30.00 Same as above (SAA)	ML		20.00 476.4	4		3.75 / 5.00
25	480					5		5.00 / 5.00
30	475	30.00 - 40.00 Moist, cohesive, mottled reddish yellow and white, with black spotting, micaceous, SILT.	ML		30.00 466.4	6		5.00 / 5.00
35	470					7		5.00 / 5.00
40	465	Boring completed at 40.00 ft						
45	460							
50								

MONITORING WELL DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-28'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 28'-38'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 25'-38'
Type: No. 2 SAND
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-25'
Type: Halliburton 3/8" Bentonite chips
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mayer
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-18-NW-4

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 25.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/18/23
DATE COMPLETED: 4/18/23

not surveyed
GS ELEVATION:
TOC ELEVATION:

DEPTH W.L.:3.0' bgs
ELEVATION W.L.: N/A
DATE W.L.:4/18/23
TIME W.L.:0830

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 5.00 Dry, non-cohesive, brown fine to coarse SAND.	SW			1		3.50/5.00		
5		5.00 - 10.00 Same as above (SAA) and Ash.	SW		5.00	2		3.00/5.00		
10		10.00 - 15.00 Wet, non-cohesive, red brown fine to coarse SAND, some Clay.	SW		10.00	3		3.50/5.00		
15		15.00 - 25.00 Wet, non-cohesive, mottled red and brown fine to coarse SAND and CLAY, with quartz, biotite, and muscovite.	SW-SC		15.00	4		2.50/5.00		
20						5		5.00/5.00		
25		Boring completed at 25.00 ft								
30										
35										
40										
45										
50										

WELL CASING
Interval: N/A
Material: N/A
Diameter: N/A
Joint Type: N/A

WELL SCREEN
Interval: N/A
Material: N/A
Diameter: N/A
Slot Size: N/A
End Cap: N/A

FILTER PACK
Interval: N/A
Type: N/A
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: N/A
Type: N/A
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: J. Booth
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-18-SE-1

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 50.00 ft
LOCATION: Juliette, GA

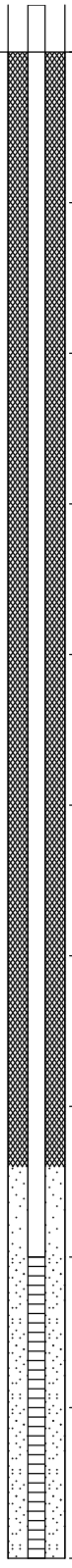
DRILL RIG: Geoprobe 3230DT
DATE STARTED: 4/12/23
DATE COMPLETED: 4/12/23

NORTHING: 1,116,934.18
EASTING: 2,406,982.98
GS ELEVATION: 511.2
TOC ELEVATION: 511.45 ft

DEPTH W.L.:43.36' bgs
ELEVATION W.L.: 467.84 ft
DATE W.L.:5/23/23
TIME W.L.:1024

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	510	0.00 - 10.00 Dry, cohesive, red orange CLAY, with trace mica.	CL		501.2	1		10.00 / 10.00
10	500	10.00 - 15.00 Dry, cohesive, mottled brown and yellow SILT, with white and black spotting, micaceous.	ML		10.00 496.2	2		5.00 / 5.00
15	495	15.00 - 25.00 Dry, cohesive, mottled red brown and yellow SILT, with white and black spotting, trace quartz, biotite, muscovite.	ML		15.00	3		5.00 / 5.00
20	490					4		3.50 / 5.00
25	485	25.00 - 40.00 Same as above (SAA), moist	ML		486.2 25.00	5		3.50 / 5.00
30	480					6		4.00 / 5.00
35	475					7		4.25 / 5.00
40	470	40.00 - 45.00 Moist, cohesive, mottled brown SAND, with grey and black spotting, micaceous, with trace biotite and muscovite.	SP		471.2 40.00	8		5.00 / 5.00
45	465	45.00 - 50.00 No recovery, assumed same soil properties as above, wet.	SP		466.2 45.00	9		0.00 / 5.00
50		Boring completed at 50.00 ft			461.2			

MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-40'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 40'-50'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 37'-50'
Type: No.2 Sand
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-37'
Type: Halliburton 3/8" chips
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mayer
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-E-1

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 50.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/9/23
DATE COMPLETED: 5/9/23

not surveyed
GS ELEVATION:
TOC ELEVATION:

DEPTH W.L.:15.3' bgs
ELEVATION W.L.: N/A
DATE W.L.:5/9/23
TIME W.L.:0958

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	SAMPLES TYPE	SAMPLES REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 18.00 Slightly moist, soft to firm, cohesive, red orange, SILT and CLAY, trace to little Sand, micaceous, Organics at 17' bgs.	CL-ML			1		10.00 / 10.00		
10						2		1.50 / 5.00		
15						3		3.70 / 5.00		
		18.00 - 20.00 Moist to wet, soft, cohesive, yellow orange, black, Sandy SILT, trace mica.	ML		18.00					
20		20.00 - 25.00 Moist to wet, loose, non-cohesive, red, yellow orange, black, tan, fine SAND and SILT, trace coarse quartz Sand. micaceous.	SP-SM		20.00	4		2.20 / 5.00		
25		25.00 - 30.00 SAA, trace fine Gravel.	SP-SM		25.00	5		4.10 / 5.00		
30		30.00 - 35.00 Moist to wet, loose, non-cohesive, red, yellow orange, black, tan, Silty fine SAND, micaceous.	SP-SM		30.00	6		4.00 / 5.00		
35		35.00 - 40.00 Moist to wet, loose to compact, orange, yellow, gray, black, pink, Silty SAND, micaceous, layered soil texture.	SP-SM		35.00	7		5.00 / 5.00		
40		40.00 - 45.00 Moist, soft to dense, non-cohesive, yellow orange, black, Silty fine SAND.	SP-SM		40.00	8		4.30 / 5.00		
45		45.00 - 50.00 Moist, dense, non-cohesive, orange, yellow, black, fine SAND, some Clay, granitic texture.	SP-SC		45.00	9		4.50 / 5.00		
50		Boring completed at 50.00 ft								

WELL CASING
Interval: N/A
Material: N/A
Diameter: N/A
Joint Type: N/A

WELL SCREEN
Interval: N/A
Material: N/A
Diameter: N/A
Slot Size: N/A
End Cap: N/A

FILTER PACK
Interval: N/A
Type: N/A
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: N/A
Type: N/A
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mikilitus
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-N-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

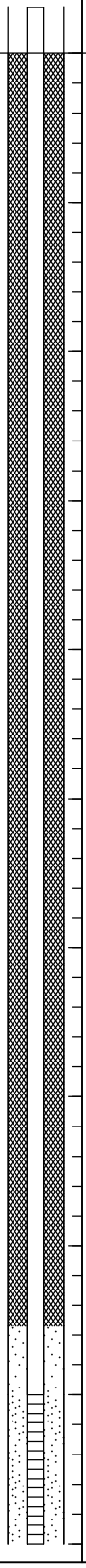
DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/3/23
DATE COMPLETED: 5/4/23

NORTHING: 1,116,070.31
EASTING: 2,405,281.44
GS ELEVATION: 502.1
TOC ELEVATION: 505.36 ft

DEPTH W.L.:11.0' bgs
ELEVATION W.L.: 491.1 ft
DATE W.L.:5/4/23
TIME W.L.:1044

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	500	0.00 - 10.00 Dry, compact, non-cohesive, red, SAND, some Clay, little Gravel.	SC		492.1	1		10.00 / 10.00
10	490	10.00 - 15.00 Wet, loose, non-cohesive, red, SAND with some Clay.	SC		10.00 487.1	2		3.50 / 5.00
15	485	15.00 - 20.00 Wet, very loose, non-cohesive, brown to yellow tan, fine SAND, very little recovery from sample.	SP		15.00 482.1	3		0.20 / 5.00
20	480	20.00 - 25.00 Wet, very loose to loose, non-cohesive, orange to brown, fine SAND, with some Clay.	SC		20.00 477.1	4		5.00 / 5.00
25	475	25.00 - 30.00 Same as above (SAA), with trace Gravels.	SC		25.00 472.1	5		3.30 / 5.00
30	470	30.00 - 35.00 Wet, very loose to loose, orange to tan, fine to medium SAND with trace Clay, trace black Gravels, micacaceous.	SW		30.00 467.1	6		5.00 / 5.00
35	465	35.00 - 40.00 Wet, loose, non-cohesive, brown to tan, fine to coarse SAND, with trace black Gravel, micaceous, with relic tan and black banding.	SW		35.00 462.1	7		4.70 / 5.00
40	460	40.00 - 45.00 SAA, with increasing relic banding.	SW		40.00 457.1	8		3.50 / 5.00
45	455	45.00 - 50.00 SAA, increasing coarseness of SAND downhole.	SW		45.00 452.1	9		3.50 / 5.00
50		Log continued on next page						

MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-45
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 45'-55'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 42.7'-55'
Type: No. 2 SAND
Quantity: 7 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-42.7'
Type: Halliburton 3/8" bentonite chips
Quantity: 11 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-N-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/3/23
DATE COMPLETED: 5/4/23

NORTHING: 1,116,070.31
EASTING: 2,405,281.44
GS ELEVATION: 502.1
TOC ELEVATION: 505.36 ft

DEPTH W.L.:11.0' bgs
ELEVATION W.L.: 491.1 ft
DATE W.L.:5/4/23
TIME W.L.:1044

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 55.00 No Recovery, assumed soil properties as above.	SW		50.00	10		0.00 / 5.00		
55	450	Boring completed at 55.00 ft			447.1				Pre-Development W.L.: 11.0' bgs	
60	445									
65	440									
70	435									
75	430									
80	425									
85	420									
90	415									
95	410									
100	405									

WELL CASING
Interval: 0-45
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 45'-55'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 42.7'-55'
Type: No. 2 SAND
Quantity: 7 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-42.7'
Type: Halliburton 3/8" bentonite chips
Quantity: 11 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-N-3

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 35.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/2/23
DATE COMPLETED: 5/2/23

not surveyed
GS ELEVATION:
TOC ELEVATION:

DEPTH W.L.:N/A
ELEVATION W.L.: N/A
DATE W.L.:N/A
TIME W.L.:N/A

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLES SAMPLE NO.	SAMPLES TYPE	SAMPLES REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0		0.00 - 5.00 Dry, very loose, non-cohesive, dark brown to gray, fine to coarse Gravelly SAND with Silt.	SW			1		1.00/5.00		
5		5.00 - 10.00 Same as above (SAA)	SW		5.00	2		0.50/5.00		
10		10.00 - 15.00 No Recovery: assumed same soil properties as above.	SW		10.00	3		0.00/5.00		
15		15.00 - 20.00 No Recovery: assumed same soil properties as above.	SW		15.00	4		0.00/5.00		
20		20.00 - 25.00 Moist, compact, non-cohesive, red orange with gold flecks, fine to medium SAND, with some Clay and Silt, trace mica.	SC		20.00	5		4.30/5.00		
25		25.00 - 30.00 SAA, loose to compact, with black nodules.	SC		25.00	6		4.10/5.00		
30		30.00 - 35.00 Wet, very loose, non-cohesvive, orange, fine Gravelly SAND, with trace Clay.	SW		30.00	7		3.00/5.00		
35		Boring completed at 35.00 ft								
40										
45										
50										

WELL CASING
Interval: N/A
Material: N/A
Diameter: N/A
Joint Type: N/A

WELL SCREEN
Interval: N/A
Material: N/A
Diameter: N/A
Slot Size: N/A
End Cap: N/A

FILTER PACK
Interval: N/A
Type: N/A
Quantity: N/A

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: N/A
Type: N/A
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Tidwell, P.G.
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-S-1

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 48.00 ft
LOCATION: Juliette, GA

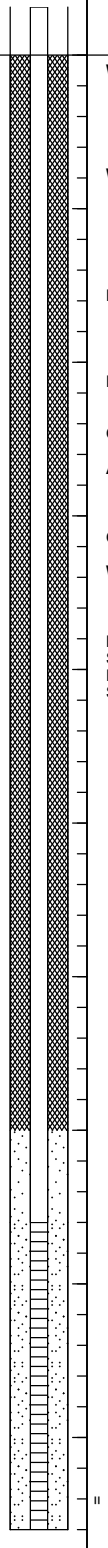
DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/4/23
DATE COMPLETED: 5/5/23

NORTHING: 1,115,964.03
EASTING: 2,405,289.21
GS ELEVATION: 499.5
TOC ELEVATION: 503.42 ft

DEPTH W.L.:9.00' bgs
ELEVATION W.L.: 490.5 ft
DATE W.L.:5/4/23
TIME W.L.:1807

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0		0.00 - 10.00 Dry to moist, loose to compact, non-cohesive, red, Clayey SAND, micaceous, trace Organics near top.	SP-SC		489.5	1		10.00 / 10.00
10	490	10.00 - 15.00 Wet, loose to compact, non-cohesive, red fine SAND, with some Clay.	SP		10.00 484.5	2		2.50 / 5.00
15	485	15.00 - 20.00 Same as above (SAA), with increased Sand, and increased mica.	SP		15.00 479.5	3		2.40 / 5.00
20	480	20.00 - 28.80 Moist, compact, non-cohesive, orange tan, pink streaks, black, light orange, Silty, Clayey SAND, with trace Organic matter, micaceous.	SC		20.00	4		2.30 / 5.00
25	475					5		3.50 / 5.00
30	470	28.80 - 30.00 Moist, loose to compact, non-cohesive, tan, brown, pink, white, fine to coarse SAND, with little fine quartz Gravels.	SW		470.7 28.80 469.5			
		30.00 - 35.00 Moist to wet, compact, non-cohesive, orange with brown, black, white mottling, black organic residues, SAND with some Clay, micaceous, some banding structure.	SC		30.00	6		3.90 / 5.00
35	465	35.00 - 40.00 Moist to wet, compact, non-cohesive, tan-orange, fine grained SAND, with trace gravel in bottom 3", micaceous.	SP		464.5 35.00	7		2.20 / 5.00
40	460	40.00 - 45.00 Moist to wet, compact, non-cohesive, orange-brown with alternating gray 1-2 inch sections, fine to coarse SAND with trace Gravel. micaceous.	SW		459.5 40.00	8		4.00 / 5.00
45	455	45.00 - 48.00 Moist to wet, loose to compact, tan white gray, fine to coarse SAND with trace Gravel.	SW		454.5 45.00	9		2.80 / 3.00
50	450	Boring completed at 48.00 ft			451.5			

MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0'-38'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 38'-48'
Material: Slotted PVC
Diameter: 2
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 35'-48'
Type: No. 2 SAND
Quantity: 7 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-35'
Type: Halliburton 3/8" bentonite chips
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mikilitus
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-S-2

SHEET 1 of 1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 46.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/7/23
DATE COMPLETED: 5/8/23

NORTHING: 1,115,932.86
EASTING: 2,405,284.54
GS ELEVATION: 497.5
TOC ELEVATION: 500.43 ft

DEPTH W.L.:16.6' bgs
ELEVATION W.L.: 480.9 ft
DATE W.L.:5/8/23
TIME W.L.:1430

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	REC
0	495	0.00 - 19.00 Slightly moist, soft, cohesive, red orange, CLAY, trace Sand, trace Organics, trace fine to coarse quartz Gravel, micaceous.	CL		1		10.00 / 10.00
5	490						
10	485				2		3.30 / 5.00
15	480				3		4.50 / 5.00
20	475	19.00 - 20.00 Moist, loose, non-cohesive, red, pink, gray, fine SAND, some Clay and Silt, micaceous, some relic rock structures. 20.00 - 25.00 No Recovery, assumed similiar soil properties as above.	SP-SC SP-SC	478.5 19.00 477.5 20.00 472.5	4		0.00 / 5.00
25	470	25.00 - 26.00 Moist to wet, loose, non-cohesive, red, pink, fine SAND, some Clay, micaceous. 26.00 - 40.00 Moist to wet, soft, cohesive, light orange and black, Sandy SILT.	SP-SC ML	25.00 471.5 26.00	5		4.00 / 5.00
30	465				6		3.50 / 5.00
35	460				7		5.00 / 5.00
40	455	40.00 - 45.00 Moist, compact, non-cohesive, gray, white, tan, orange, Silty fine SAND, trace fine to coarse Gravel, trace coarse Sand, with banding.	SP	457.5 40.00 452.5	8		2.00 / 5.00
45	450	45.00 - 46.00 Moist, compact to dense, non-cohesive, gray and black, fine SAND, with banding. Boring completed at 46.00 ft	SP	45.00 451.5	9		1.00 / 1.00
50							

MONITORING WELL DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-41
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 41'-46'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 38.2'-46'
Type: No. 2 SAND
Quantity: 3 bags x 0.5 cubic ft

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-38.2'
Type: Halliburton 3/8" bentonite chips
Quantity: N/A

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mikilitus
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-W-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/5/23
DATE COMPLETED: 5/7/23

NORTHING: 1,115,961.41
EASTING: 2,405,255.26
GS ELEVATION: 497.8
TOC ELEVATION: 498.95 ft

DEPTH W.L.:5.9' bgs
ELEVATION W.L.: 491.9 ft
DATE W.L.:5/7/23
TIME W.L.:0826

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES SAMPLE NO.	TYPE	REC	MONITORING WELL DIAGRAM and NOTES
0		0.00 - 10.00 Dry to moist, loose to compact, non-cohesive, red, SAND with some Clay, micaceous, trace Organic matter near surface, trace cobbles encountered while hand augering.	SC		487.8	1		10.00 10.00	SCH-TW-20B Riser
10	495 490 485	10.00 - 15.00 Moist, loose, non-cohesive, red to light red, SAND with some Clay, micaceous.	SC		10.00 482.8	2		2.20 5.00	
15	480	15.00 - 19.50 Same as above (SAA), with fine sand sized pieces of muscovite.	SC		15.00 478.3	3		2.40 5.00	
20	475	19.50 - 20.00 Moist, loose, non-cohesive, light brown to pink, SAND with some Clay, with little Silt, micaceous, with some banding structure. 20.00 - 24.60 Moist, loose, non-cohesive, light brown and pink, SAND with some Clay, with little Silt, micaceous.	SC		20.00 473.2	4		4.60 5.00	
25	470	24.60 - 25.00 Moist, soft, cohesive, light yellow orange, Silty Sandy CLAY, with trace mica, trace decomposed black organics. 25.00 - 30.00 Moist to wet, very soft, cohesive, light orange, Silty CLAY, with little Sand, miceacous.	CL CL		25.00 467.8	5		3.00 5.00	
30	465	30.00 - 35.00 Moist to wet, very soft, cohesive, light orange, Silty Sandy CLAY, yellow tan to light orange.	CL		30.00 462.8	6		3.00 5.00	
35	460	35.00 - 40.00 Moist, firm, cohesive, light yellow to tan, SAND and Silty CLAY, with trace muscovite.	CL		35.00 457.8	7		3.50 5.00	Bentonite
40	455	40.00 - 41.50 Moist to wet, soft to firm, cohesive, tan to light orange Sandy Silty CLAY. 41.50 - 45.00 Moist to wet, soft to firm, tan to light orange, black and light gray, Silty CLAY, with banding and foliations observed.	CL CL		40.00 456.3 41.50 452.8	8		4.90 5.00	Filter pack
45	450	45.00 - 50.00 Moist, compact, non-cohesive, black, gray, light orange, fine to coarse SAND with some Clay, trace quartz grains, slightly micaceous.	SW-SC		45.00 447.8	9		3.50 5.00	Screen
50		Log continued on next page							

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0-45
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 45'-55'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 42.4'-55'
Type: No. 2 SAND
Quantity: 7 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-42.4'
Type: Halliburton 3/8" bentonite chips
Quantity: 7.5 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mikilitus
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

RECORD OF BOREHOLE SB-20-W-1

PROJECT: Plant Scherer Soil Profiling
PROJECT NUMBER: GL166235020
DRILLED DEPTH: 55.00 ft
LOCATION: Juliette, GA

DRILL RIG: Geoprobe 3230DT
DATE STARTED: 5/5/23
DATE COMPLETED: 5/7/23

NORTHING: 1,115,961.41
EASTING: 2,405,255.26
GS ELEVATION: 497.8
TOC ELEVATION: 498.95 ft

DEPTH W.L.:5.9' bgs
ELEVATION W.L.: 491.9 ft
DATE W.L.:5/7/23
TIME W.L.:0826

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: SAMPLE NO.	SAMPLES: TYPE	SAMPLES: REC	MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
50		50.00 - 55.00 No recovery, assumed same soil properties as above.	SW-SC		50.00	10		0.00 / 5.00		
55	445				442.8					
		Boring completed at 55.00 ft			55.00				Pre-Development W.L.: 5.9' bgs	
60	440									
65	435									
70	430									
75	425									
80	420									
85	415									
90	410									
95	405									
100	400									

WELL CASING
Interval: 0-45
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 45'-55'
Material: Slotted PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 3"

FILTER PACK
Interval: 42.4'-55'
Type: No. 2 SAND
Quantity: 7 x 0.5 cubic ft bags

FILTER PACK SEAL
Interval: N/A
Type: N/A
Quantity: N/A

ANNULUS SEAL
Interval: 0'-42.4'
Type: Halliburton 3/8" bentonite chips
Quantity: 7.5 bags

WELL COMPLETION
Pad: N/A
Protective Casing: N/A

DRILLING METHODS
Soil Drill: Direct Push
Rock Drill: N/A
Sample Type: Hydraulic Push

LOG SCALE: 1 in = 6.5 ft
DRILLING COMPANY: Cascade
DRILLER: Devin Powell

WSP INSPECTOR: C. Mikilitus
CHECKED BY: K. Minkara, P.G.
DATE: 6/15/23

BOREHOLE RECORD SCHERER TEMP WELLS.GPJ PIEDMONT.GDT 6/16/23

Appendix D
Soil Analytical Results

ANALYSIS REPORT BBM22-24064

To F400101 SGS CANADA INC
LAIN GLOSSOP
3260 PRODUCTION WAY
BURNABY V5A 4W4
BC
CANADA

Project	CA20I-00000-211-19515-01	Date Received	23-Nov-2022
Submission Number	19515-01I/ MI7006-NOV22/ 27 pulps	Date Analysed	30-Nov-2022 - 02-Dec-2022
Number of Samples	27	Date Completed	02-Dec-2022
		SGS Order Number	BBM22-24064

Methods Summary

Number of Sample	Method Code	Description
27	G_PHY01V	Loss on ignition (LOI), Furnace, variable wt, variable temp
27	GO_XRF72	Borate Fusion, XRF, Ore Grade

Authorised Signatory

John Chiang
Laboratory Operations Manager

SCC Accredited LAB Accrédité CCN

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project	CA20I-00000-211-19515-01
Submission Number	19515-01I/ MI7006-NOV22/ 27 pulps
Number of Samples	27

ANALYSIS REPORT BBM22-24064

Element	LOI	@Al2O3	@CaO	@Cr2O3	@Fe2O3	@K2O
Method	G_PHY01V	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72
Lower Limit	-10	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	60	5	100	70
Unit	%	%	%	%	%	%
SGWC-20B (14-15)	14.7541	25.34	0.36	0.02	18.89	0.40
SGWC-20B (23.5-24.5)	9.65097	20.40	2.65	0.02	10.18	0.50
SGWC-20B (30.5-31.5)	8.45000	18.71	2.85	0.01	10.43	0.73
SGWC-20B (37.5-37.5)	6.90862	17.98	2.56	0.02	7.15	0.85
SGWC-20C (13-14)	12.2039	22.44	0.07	0.01	13.52	0.14
SGWC-20C (19-20)	13.4560	23.74	0.10	<0.01	18.05	0.54
SGWC-20C (33.5-34.5)	11.1389	21.46	0.08	0.01	10.09	0.98
SGWC-20D (8-9)	13.3347	24.59	0.03	0.01	13.28	0.16
SGWC-20D (18.5-19.5)	10.4148	21.15	0.06	0.02	9.77	0.51
SGWC-20D (33-34)	10.2810	19.53	0.34	<0.01	7.79	0.68
SGWC-18B (28-30)	6.87000	18.07	0.85	0.02	4.58	0.35
SGWC-18B (37-39)	5.43837	16.78	2.26	0.02	5.81	0.81
SGWC-18C (32-34)	11.7888	23.75	0.04	<0.01	13.39	0.17
SGWC-18C (43-45)	12.8900	24.71	0.22	<0.01	15.05	0.20
SGWC-18C (55-57)	3.51859	17.03	3.28	0.02	5.46	0.66
SGWC-18D (28-30)	11.6212	22.41	2.23	0.11	15.86	0.37
SGWC-18D (42.5-44.5)	7.67770	19.31	5.27	0.03	13.37	0.33
SGWC-18D (47.5-49.5)	6.45677	20.14	5.28	<0.01	13.62	0.30
SGWC-15A (31.3-33.3)	14.3000	24.49	0.14	0.04	15.16	0.22
SGWC-15A (42-44)	11.7365	23.14	2.29	0.03	11.44	0.21
SGWC-15A (46-48)	7.40852	17.99	5.38	0.02	9.86	0.31
SGWC-15C (28-30)	13.8972	27.53	0.03	0.02	17.04	0.44
SGWC-15C (43-45)	11.2255	21.14	0.60	0.01	11.46	0.18
SGWC-15B (28-30)	10.6279	21.93	0.02	<0.01	10.72	0.05
SGWC-15B (42-44)	11.4700	21.33	0.12	<0.01	11.75	0.09
SGWC-15B (48-50)	10.1190	19.93	3.29	0.07	12.85	0.42
SGWC-15B (31.5)	5.64887	11.89	1.88	0.06	7.72	0.61

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Project	CA20I-00000-211-19515-01
Submission Number	19515-01I/ MI7006-NOV22/ 27 pulps
Number of Samples	27

ANALYSIS REPORT BBM22-24064

Element	LOI	@Al2O3	@CaO	@Cr2O3	@Fe2O3	@K2O
Method	G_PHY01V	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72
Lower Limit	-10	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	60	5	100	70
Unit	%	%	%	%	%	%
*Rep SGWC-18C (32-34)	11.7776	-	-	-	-	-
*Std OREAS 70b	7.00930	-	-	-	-	-
*Rep SGWC-15A (46-48)	7.44074	-	-	-	-	-
*Blk BLANK	-	-	-	-	-	-
*Std OREAS 751	-	15.99	1.05	<0.01	2.41	2.91
*Blk BLANK	-	<0.01	<0.01	<0.01	<0.01	<0.01
*Rep SGWC-18C (32-34)	-	23.74	0.04	<0.01	13.37	0.17
*Std OREAS 70b	-	7.20	4.28	0.18	7.99	0.71
*Rep SGWC-15A (46-48)	-	17.98	5.38	0.02	9.89	0.31

Element	@MgO	Mn3O4	@Na2O	@P2O5	@SiO2	@TiO2
Method	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	60	55	100	100
Unit	%	%	%	%	%	%
SGWC-20B (14-15)	1.17	0.13	0.05	0.07	37.58	2.60
SGWC-20B (23.5-24.5)	2.43	0.18	0.43	0.02	53.51	0.96
SGWC-20B (30.5-31.5)	2.46	0.22	0.84	0.02	55.43	0.96
SGWC-20B (37.5-37.5)	2.13	0.15	1.26	0.01	60.92	0.70
SGWC-20C (13-14)	0.25	0.08	<0.01	0.07	51.47	0.99
SGWC-20C (19-20)	0.72	0.26	0.02	0.09	42.22	1.53
SGWC-20C (33.5-34.5)	1.62	0.22	<0.01	0.03	54.79	0.93
SGWC-20D (8-9)	0.25	0.03	<0.01	0.04	48.38	0.94
SGWC-20D (18.5-19.5)	0.87	0.11	0.01	0.03	56.86	1.07
SGWC-20D (33-34)	1.05	0.19	0.06	0.02	59.92	0.75
SGWC-18B (28-30)	0.63	0.13	0.86	<0.01	67.75	0.59
SGWC-18B (37-39)	2.16	0.14	1.69	0.03	64.46	0.71

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project	CA20I-00000-211-19515-01
Submission Number	19515-01I/ MI7006-NOV22/ 27 pulps
Number of Samples	27

ANALYSIS REPORT BBM22-24064

Element	@MgO	Mn3O4	@Na2O	@P2O5	@SiO2	@TiO2
Method	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72	GO_XRF72
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	60	55	100	100
Unit	%	%	%	%	%	%
SGWC-18C (32-34)	0.42	0.28	0.01	0.07	49.28	1.37
SGWC-18C (43-45)	0.50	0.32	0.08	0.21	45.05	1.48
SGWC-18C (55-57)	1.27	0.13	2.49	0.13	65.94	0.62
SGWC-18D (28-30)	3.55	0.40	0.25	0.04	42.55	1.02
SGWC-18D (42.5-44.5)	5.03	0.23	0.77	0.11	46.95	1.15
SGWC-18D (47.5-49.5)	3.77	0.22	1.30	0.15	47.96	1.18
SGWC-15A (31.3-33.3)	0.86	0.30	0.02	0.08	43.58	1.41
SGWC-15A (42-44)	2.44	0.21	0.26	0.10	47.40	1.32
SGWC-15A (46-48)	4.97	0.19	0.53	0.14	52.51	0.78
SGWC-15C (28-30)	0.89	0.24	<0.01	0.08	38.81	1.35
SGWC-15C (43-45)	0.58	0.23	0.06	0.13	53.88	0.89
SGWC-15B (28-30)	0.10	0.19	<0.01	0.05	55.82	1.07
SGWC-15B (42-44)	0.25	0.20	0.01	0.09	54.32	0.91
SGWC-15B (48-50)	3.67	0.28	0.34	0.05	48.38	0.84
SGWC-15B (31.5)	1.88	0.16	0.53	<0.01	70.00	0.68
*Std OREAS 751	0.51	0.10	3.44	0.28	72.18	0.24
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
*Rep SGWC-18C (32-34)	0.42	0.27	<0.01	0.07	49.51	1.39
*Std OREAS 70b	22.55	0.17	1.03	0.05	48.71	0.30
*Rep SGWC-15A (46-48)	4.95	0.19	0.52	0.14	52.84	0.80

Element	@V2O5	Sum
Method	GO_XRF72	GO_XRF72
Lower Limit	0.01	0.01
Upper Limit	10	100
Unit	%	%
SGWC-20B (14-15)	0.04	86.73
SGWC-20B (23.5-24.5)	0.03	91.35

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Project	CA20I-00000-211-19515-01
Submission Number	19515-01I/ MI7006-NOV22/ 27 pulps
Number of Samples	27

ANALYSIS REPORT BBM22-24064

Element	@V2O5	Sum
Method	GO_XRF72	GO_XRF72
Lower Limit	0.01	0.01
Upper Limit	10	100
Unit	%	%
SGWC-20B (30.5-31.5)	0.03	92.74
SGWC-20B (37.5-37.5)	0.02	93.79
SGWC-20C (13-14)	0.04	89.23
SGWC-20C (19-20)	0.04	87.48
SGWC-20C (33.5-34.5)	0.03	90.34
SGWC-20D (8-9)	0.03	87.78
SGWC-20D (18.5-19.5)	0.02	90.58
SGWC-20D (33-34)	0.02	90.42
SGWC-18B (28-30)	0.01	93.92
SGWC-18B (37-39)	<0.01	94.95
SGWC-18C (32-34)	0.03	88.93
SGWC-18C (43-45)	0.04	88.00
SGWC-18C (55-57)	0.01	97.08
SGWC-18D (28-30)	0.06	88.88
SGWC-18D (42.5-44.5)	0.06	92.71
SGWC-18D (47.5-49.5)	0.05	94.05
SGWC-15A (31.3-33.3)	0.04	86.45
SGWC-15A (42-44)	0.03	88.91
SGWC-15A (46-48)	0.03	92.77
SGWC-15C (28-30)	0.05	86.64
SGWC-15C (43-45)	0.04	89.26
SGWC-15B (28-30)	0.04	90.13
SGWC-15B (42-44)	0.05	89.18
SGWC-15B (48-50)	0.04	90.19
SGWC-15B (31.5)	0.02	95.50
*Std OREAS 751	<0.01	99.33
*Blk BLANK	<0.01	0.02

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Project	CA20I-00000-211-19515-01
Submission Number	19515-01I/ MI7006-NOV22/ 27 pulps
Number of Samples	27

ANALYSIS REPORT BBM22-24064

Element	@V2O5	Sum
Method	GO_XRF72	GO_XRF72
Lower Limit	0.01	0.01
Upper Limit	10	100
Unit	%	%
*Rep SGWC-18C (32-34)	0.03	89.12
*Std OREAS 70b	<0.01	93.93
*Rep SGWC-15A (46-48)	0.04	93.09

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM23-26938

To F406201 SGS CEMI INC.
SAKINA MASSANI
3260 Production Way
BURNABY V5A 4W4
BC
CANADA

Order Number	PO: 6279	Date Received	30-Mar-2023
Submission Number	2267 Golder (PJ Nolan) - SGS	Date Analysed	03-Apr-2023
Mineralogy / 6279 / 27 Pulp		Date Completed	04-Apr-2023
Number of Samples	27	SGS Order Number	BBM23-26938

Methods Summary

Number of Sample	Method Code	Description
27	GE_CSA06V	Total Sulphur and Carbon, IR Combustion

Authorised Signatory

John Chiang
Laboratory Operations Manager

SCC Accredited LAB Accrédité CCN

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

ANALYSIS REPORT BBM23-26938

Order Number	PO: 6279
Submission Number	2267 Golder (PJ Nolan) - SGS
Mineralogy / 6279 / 27 Pulp	
Number of Samples	27

Element	@S
Method	GE_CSA06V
Lower Limit	0.005
Upper Limit	30
Unit	%
SGWC-20B (14-15)	0.114
SGWC-20B (23.5-24.5)	0.062
SGWC-20B (30.5-31.5)	0.053
SGWC-20B (37.5-37.5)	0.044
SGWC-20C (13-14)	0.109
SGWC-20C (19-20)	0.112
SGWC-20C (33.5-34.5)	0.075
SGWC-20D (8-9)	0.079
SGWC-20D (18.5-19.5)	0.081
SGWC-20D (33-34)	0.063
SGWC-18B (28-30)	0.045
SGWC-18B (37-39)	0.039
SGWC-18C (32-34)	0.095
SGWC-18C (43-45)	0.108
SGWC-18C (55-57)	0.031
SGWC-18D (28-30)	0.072
SGWC-18D (42.5-44.5)	0.143
SGWC-18D (47.5-49.5)	0.055
SGWC-15A (31.3-33.3)	0.147
SGWC-15A (42-44)	0.075
SGWC-15A (46-48)	0.045
SGWC-15C (28-30)	0.121
SGWC-15C (43-45)	0.075
SGWC-15B (28-30)	0.100
SGWC-15B (42-44)	0.083
SGWC-15B (48-50)	0.063
SGWC-15B (31.5)	0.038

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: 6279
Submission Number	2267 Golder (PJ Nolan) - SGS
Mineralogy / 6279 / 27 Pulp	
Number of Samples	27

ANALYSIS REPORT BBM23-26938

Element	@S
Method	GE_CSA06V
Lower Limit	0.005
Upper Limit	30
Unit	%
*Rep SGWC-20C (19-20)	0.114
*Blk BLANK	<0.005
*Std GS314-2	2.591

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Clay Speciation by X-Ray Diffraction

Report Prepared for:	*Golder Associates Inc*
Project Number/ LIMS No.	*19515-01/MI7006-NOV22*
Sample Receipt:	*November 9, 2022*
Sample Analysis:	*January 6, 2023*
Reporting Date:	*February 9, 2023*

Clay Analysis	
Instrument:	BRUKER AXS D8 Advance Diffractometer
Test Conditions:	Co radiation, 35 kV, 40 mA; Detector: LYNXEYE Regular Scanning: Step: 0.02°, Step time:0.3s, 2θ range: 4-75°
Bulk Analysis	
Instrument:	Panalytical X'pert Pro Diffractometer
Test Conditions:	Co radiation, 40 kV, 45 mA Regular Scanning: Step: 0.033°, Step time:0.15s, 2θ range: 6-70°
Interpretations :	PDF2/PDF4 powder diffraction databases issued by the International Center for Diffraction Data (ICDD). DiffracPIus Eva software.
Detection Limit :	0.5-2%. Strongly dependent on crystallinity.

Contents:

1) Method Summary
2) Semi-Quantitative XRD Results
3) Chemical Balance(s)
4) XRD Pattern(s)

Kim Gibbs, H.B.Sc., P.Geo.
Senior Mineralogist

Huyun Zhou, Ph.D., P.Geo.
Senior Mineralogist

Method Summary

The Clay Speciation by XRD by XRD (ME-LR-MIN-MET-MN-D04) method used by SGS Natural Resources is accredited to the requirements of ISO/IEC 17025.

Mineral Identification and Interpretation:

Mineral identification and interpretation involve matching the diffraction pattern of a test sample material to patterns of single-phase reference materials. The reference patterns are compiled by the Joint Committee on Powder Diffraction Standards - International Center for Diffraction Data (JCPDS-ICDD) and released on software as a database of Powder Diffraction Files (PDF).

Interpretations do not reflect the presence of non-crystalline and/or amorphous compounds. Mineral proportions are based on relative peak heights and may be strongly influenced by crystallinity, structural group or preferred orientations. Interpretations and relative proportions should be accompanied by supporting petrographic and geochemical data (Whole Rock Analysis, Inductively Coupled Plasma - Optical Emission Spectroscopy, etc.).

Clay Mineral Separation and Identification:

Clay minerals are typically fine-grained (<2 µm) phyllosilicates in sedimentary rock. Due to the poor crystallinity and fine size of clay minerals, separation of the clay fraction from bulk samples by centrifuge is required. A slide of the oriented clay fraction is prepared and scanned followed by a series of procedures (the addition of ethylene glycol and high temperature heating). Clay minerals are identified by their individual diffraction patterns and changes in their diffraction pattern after different treatments.

Bulk Sample Semi-Quantitative Analysis:

The Semi-Quantitative analysis (RIR method) is performed based on each mineral's relative peak heights and of their respective I/Icor values, which are available from the PDF database. Mineral abundances for the bulk sample (in weight %) are generated by Bruker-EVA Software. These data are reconciled with a bulk chemistry (e.g. whole rock analysis including SiO_2, Al_2O_3, Na_2O, K_2O, CaO, MgO, Fe_2O_3, Cr_2O_3, MnO, TiO_2, P_2O_5, V_2O_5 or other chemical data). A chemical balance table shows the difference between the assay results and elemental concentrations determined by XRD.

Semi-Quantitative X-ray Diffraction Results

Mineral	SGWC-20B (14-15) (wt %)	SGWC-20B (23.5-24.5) (wt %)	SGWC-20B (30.5-31.5) (wt %)	SGWC-20B (37.5-37.5) (wt %)	SGWC-20C (13-14) (wt %)	SGWC-20C (19-20) (wt %)	SGWC-20C (33.5-34.5) (wt %)	SGWC-20D (8-9) (wt %)	SGWC-20D (18.5-19.5) (wt %)	SGWC-20D (33-34) (wt %)
Quartz	3.4	19.6	20.6	27.8	24.2	13.0	24.5	19.8	18.7	31.7
Goethite	8.6	5.0	4.9	-	10.8	12.4	5.7	9.4	8.0	4.2
Magnesiohornblende	-	18.4	15.8	17.2	-	-	1.5	-	-	-
Albite	-	5.8	10.2	14.3	4.3	-	-	-	-	-
Orthoclase	-	2.9	5.5	3.9	0.7	1.3	2.8	-	-	1.4
Hematite	3.7	1.5	-	-	1.8	3.9	1.2	2.5	1.8	1.5
Magnetite	2.2	1.2	0.8	0.7	1.2	1.4	0.8	1.3	1.1	0.9
Anatase	1.3	0.9	0.8	0.8	0.9	1.7	0.9	1.2	1.3	1.1
Actinolite	5.8	-	-	-	-	-	-	-	-	-
Fibroferrite	4.5	-	-	-	-	-	-	-	-	-
Pseudorutile	1.9	-	-	-	-	-	-	-	-	-
Jarosite	1.9	-	-	-	-	-	-	-	-	-
Palygorskite	-	-	0.1	0.1	-	-	-	-	-	-
Zircon	-	-	-	-	-	-	-	-	-	-
Ilmenite	-	-	-	-	-	-	-	-	-	-
Pyrite	-	-	-	-	-	-	-	-	-	-
Heulandite	-	-	-	-	-	-	-	-	-	-
Pyrolusite	-	-	-	-	-	-	-	-	-	-
Anorthite	-	-	-	-	-	-	-	-	-	-
Richterite	-	-	-	-	-	-	-	-	-	-
Switzerite	-	-	-	-	-	-	-	-	-	-
Clays										
Kaolinite	62.4	39.7	35.2	28.8	52.9	57.6	44.3	60.6	58.1	48.8
Illite	2.2	1.5	1.3	1.3	2.3	7.1	6.0	4.1	4.6	7.0
Montmorillonite	1.7	1.2	3.5	4.0	0.8	1.2	12.4	-	6.3	1.4
Clinochlore	-	-	-	-	-	-	-	1.0	-	2.0
Vermiculite	0.3	0.2	0.2	0.1	0.2	-	-	-	-	-
Sepiolite	-	2.0	1.0	1.0	-	0.3	-	-	-	-
TOTAL	100	100	100	100	100	100	100	100	100	100

Semi-Quantitative X-ray Diffraction Results

Mineral	SGWC-18B (28-30) (wt %)	SGWC-18B (37-39) (wt %)	SGWC-18C (32-34) (wt %)	SGWC-18C (43-45) (wt %)	SGWC-18C (55-57) (wt %)	SGWC-18D (28-30) (wt %)	SGWC-18D (42.5-44.5) (wt %)	SGWC-18D (47.5-49.5) (wt %)	SGWC-15A (31.3-33.3) (wt %)	SGWC-15A (42-44) (wt %)
Quartz	38.8	31.6	25.3	13.6	31.4	4.8	5.7	3.4	10.8	11.0
Goethite	-	-	7.0	6.8	-	9.4	4.2	2.3	14.7	6.0
Magnesiohornblende	4.1	11.7	-	-	11.6	20.3	41.9	28.4	-	17.1
Albite	16.7	20.7	-	-	31.3	-	5.9	-	-	2.5
Orthoclase	1.8	5.3	1.9	2.7	3.3	-	2.2	1.3	0.9	1.3
Hematite	-	-	1.0	2.4	-	1.8	-	-	-	-
Magnetite	1.8	1.1	1.2	2.4	1.1	1.4	1.2	0.7	1.6	1.2
Anatase	0.5	0.9	0.9	1.1	0.6	1.3	1.1	1.0	1.3	1.6
Actinolite	-	-	-	2.4	-	-	-	-	-	-
Fibroferrite	-	-	-	-	-	-	-	-	-	-
Pseudorutile	-	-	-	-	-	-	-	-	-	-
Jarosite	-	-	-	-	-	-	-	-	-	-
Palygorskite	-	-	-	-	-	-	-	-	-	-
Zircon	1.4	-	-	-	-	-	-	-	-	-
Ilmenite	-	-	1.1	1.4	-	-	-	-	-	-
Pyrite	-	-	2.9	2.8	-	-	-	-	-	-
Heulandite	-	-	0.8	-	-	-	-	-	-	0.4
Pyrolusite	-	-	-	-	-	-	-	-	0.6	-
Anorthite	-	-	-	-	-	-	-	14.7	-	-
Richterite	-	-	-	-	-	-	-	9.8	-	-
Switzerite	-	-	-	-	-	-	-	-	-	-
Clays										
Kaolinite	32.9	23.5	58.0	61.2	16.5	52.1	32.6	34.5	63.9	55.9
Illite	1.8	1.7	-	1.4	3.1	1.9	1.6	1.3	1.3	1.6
Montmorillonite	-	2.7	-	-	1.2	-	1.7	-	1.8	1.3
Clinochlore	-	-	-	1.8	-	-	-	-	-	-
Vermiculite	-	-	-	-	-	0.6	-	0.7	-	-
Sepiolite	0.3	0.8	-	-	-	6.3	2.0	1.9	3.1	-
TOTAL	100	100	100	100	100	100	100	100	100	100

Semi-Quantitative X-ray Diffraction Results

Mineral	SGWC-15A (46-48) (wt %)	SGWC-15C (28-30) (wt %)	SGWC-15C (43-45) (wt %)	SGWC-15B (28-30) (wt %)	SGWC-15B (42-44) (wt %)	SGWC-15B (48-50) (wt %)
Quartz	15.3	5.4	27.0	31.8	30.5	13.4
Goethite	-	13.2	8.4	9.3	10.5	5.7
Magnesiohornblende	44.6	-	6.8	-	-	29.8
Albite	2.4	-	-	-	-	3.7
Orthoclase	1.6	2.2	0.8	-	-	2.6
Hematite	-	2.7	0.9	0.6	0.7	-
Magnetite	0.8	1.9	1.6	1.5	1.8	1.5
Anatase	0.8	1.6	0.9	0.8	0.9	1.0
Actinolite	-	-	-	-	-	-
Fibroferrite	-	-	-	-	-	-
Pseudorutile	-	-	-	-	-	-
Jarosite	-	-	-	-	-	-
Palygorskite	-	-	-	-	-	-
Zircon	-	-	-	-	-	-
Ilmenite	-	-	-	0.5	-	-
Pyrite	-	-	-	-	-	-
Heulandite	-	-	-	-	-	-
Pyrolusite	-	-	-	-	-	-
Anorthite	-	-	-	-	-	-
Richterite	-	-	-	-	-	-
Switzerite	-	0.6	-	-	-	-
Clays						
Kaolinite	30.6	68.0	52.4	55.5	55.7	36.1
Illite	1.9	2.3	1.3	-	-	1.9
Montmorillonite	2.1	-	-	-	-	4.3
Clinochlore	-	2.2	-	-	-	-
Vermiculite	-	-	-	-	-	-
Sepiolite	-	-	-	-	-	-
TOTAL	100	100	100	100	100	100

Mineral List

Mineral	Composition
Quartz	SiO_2
Goethite	αFeO·OH
Magnesiohornblende	$Ca_2(MgFe)_4Al(Si_7Al)O_{22}(OH,F)_2$
Albite	$NaAlSi_3O_8$
Orthoclase	$KAlSi_3O_8$
Hematite	Fe_2O_3
Magnetite	Fe_3O_4
Anatase	TiO_2
Actinolite	$Ca_2(Mg,Fe)_5Si_8O_{22}(OH)_2$
Fibroferrite	$Fe(OH)(SO_4)H_2O_5$
Pseudorutile	$Fe_2Ti_3O_9$
Jarosite	$KFe_3(SO_4)_2(OH)_6$
Palygorskite	$(Mg,Al)_2Si_4O_{10}(OH)·4H_2O$
Zircon	$ZrSiO_4$
Ilmenite	$FeTiO_3$
Pyrite	FeS_2
Heulandite	$CaAl_2Si_7O_{18}·6H_2O$
Pyrolusite	MnO_2
Switzerite	$Mn_3(PO_4)_2H_2O_7$
Kaolinite	$Al_2Si_2O_5(OH)_4$
Illite	$(K,H_3O)(Al,Mg,Fe)_2(Si,Al)_4O_{10}[(OH)_2,(H_2O)]$
Montmorillonite	$(Na,Ca)_{0.3}(Al,Mg)_2Si_4O_{10}(OH)_2·10H_2O$
Clinochlore	$(Fe,Mg)_5Al(Si_3Al)O_{10}(OH)_8$
Vermiculite	$(Mg,Al)_3(Si,Al)_4O_{10}(OH)_2·4H_2O$
Anorthite	$CaAl_2Si_2O_8$
Richterite	$Na_2Ca(Mg,Fe)_5Si_8O_{22}(OH)_2$
Sepiolite	$Mg_4(OH)_2Si_6O_{15}·6H_2O$

Chemical Balance

SGWC-20B (14-15)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	51.0	-	SQD
Silicon	17.6	17.3	0.25	Both
Aluminum	13.4	13.5	-0.12	Both
Iron	13.2	13.2	0.04	Both
Titanium	1.56	1.46	0.10	Both
Magnesium	0.71	0.57	0.13	Both
Potassium	0.33	0.23	0.10	Both
Calcium	0.26	0.56	-0.31	Both
Manganese	0.09	-	-	XRF
Sodium	0.04	0.02	0.02	Both
Phosphorus	0.03	-	-	XRF
Vanadium	0.02	-	-	XRF
Chromium	0.01	-	-	XRF
Hydrogen	-	1.37	-	SQD
Sulfur	-	0.80	-	SQD

1. Values measured by chemical assay.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-20B (23.5-24.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	50.1	-	SQD
Silicon	25.0	25.5	-0.46	Both
Aluminum	10.8	10.8	0.00	Both
Iron	7.12	7.69	-0.57	Both
Calcium	1.89	1.92	-0.02	Both
Magnesium	1.47	1.44	0.03	Both
Titanium	0.58	0.56	0.02	Both
Potassium	0.42	0.47	-0.05	Both
Sodium	0.32	0.39	-0.07	Both
Manganese	0.13	-	-	XRF
Vanadium	0.02	-	-	XRF
Chromium	0.01	-	-	XRF
Hydrogen	-	0.79	-	SQD
Fluorine	-	0.40	-	SQD

1. Values measured by chemical assay.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-20B (30.5-31.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	49.6	-	SQD
Silicon	25.9	26.0	-0.04	Both
Aluminum	9.90	10.5	-0.62	Both
Iron	7.30	7.31	-0.02	Both
Calcium	2.04	1.66	0.38	Both
Magnesium	1.48	1.91	-0.42	Both
Sodium	0.62	0.69	-0.07	Both
Potassium	0.61	0.83	-0.22	Both
Titanium	0.58	0.48	0.09	Both
Manganese	0.16	-	-	XRF
Vanadium	0.02	-	-	XRF
Hydrogen	-	0.76	-	SQD
Fluorine	-	0.29	-	SQD

1. Values measured by chemical assay.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-20B (37.5-37.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	50.1	-	SQD
Silicon	28.5	28.9	-0.44	Both
Aluminum	9.52	9.63	-0.11	Both
Iron	5.00	4.44	0.56	Both
Calcium	1.83	1.93	-0.10	Both
Magnesium	1.28	2.05	-0.77	Both
Sodium	0.94	0.96	-0.03	Both
Potassium	0.71	0.59	0.12	Both
Titanium	0.42	0.50	-0.08	Both
Manganese	0.11	-	-	XRF
Chromium	0.01	-	-	XRF
Vanadium	0.01	-	-	XRF
Hydrogen	-	0.61	-	SQD
Fluorine	-	0.31	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-20C (13-14)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	51.5	-	SQD
Silicon	24.1	24.8	-0.75	Both
Aluminum	11.9	12.1	-0.22	Both
Iron	9.46	9.37	0.08	Both
Titanium	0.59	0.54	0.06	Both
Magnesium	0.15	0.09	0.06	Both
Potassium	0.12	0.18	-0.06	Both
Manganese	0.06	-	-	XRF
Calcium	0.05	0.17	-0.12	Both
Phosphorus	0.03	-	-	XRF
Vanadium	0.02	-	-	XRF
Hydrogen	-	1.00	-	SQD
Sodium	-	0.29	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-20C (19-20)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	50.3	-	SQD
Silicon	19.7	20.4	-0.69	Both
Iron	12.6	13.1	-0.48	Both
Aluminum	12.6	13.4	-0.80	Both
Titanium	0.92	1.02	-0.11	Both
Potassium	0.45	0.45	0.00	Both
Magnesium	0.43	0.12	0.31	Both
Manganese	0.19	-	-	XRF
Calcium	0.07	0.02	0.05	Both
Phosphorus	0.04	-	-	XRF
Vanadium	0.02	-	-	XRF
Sodium	0.01	0.01	0.00	Both
Hydrogen	-	1.15	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-20C (33.5-34.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	53.4	-	SQD
Silicon	25.6	25.0	0.57	Both
Aluminum	11.4	11.4	-0.07	Both
Iron	7.06	6.47	0.59	Both
Magnesium	0.98	0.87	0.11	Both
Potassium	0.81	0.61	0.20	Both
Titanium	0.56	0.56	0.00	Both
Manganese	0.16	-	-	XRF
Calcium	0.06	0.33	-0.27	Both
Vanadium	0.02	-	-	XRF
Phosphorus	0.01	-	-	XRF
Hydrogen	-	1.14	-	SQD
Fluorine	-	0.03	-	SQD
Sodium	-	0.11	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-20D (8-9)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	51.6	-	SQD
Silicon	22.6	23.3	-0.64	Both
Aluminum	13.0	13.4	-0.42	Both
Iron	9.29	9.58	-0.29	Both
Titanium	0.56	0.70	-0.13	Both
Magnesium	0.15	0.19	-0.04	Both
Potassium	0.13	0.16	-0.02	Both
Manganese	0.02	0.00	0.02	Both
Calcium	0.02	-	-	XRF
Phosphorus	0.02	-	-	XRF
Vanadium	0.02	-	-	XRF
Hydrogen	-	1.11	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-20D (18.5-19.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	52.8	-	SQD
Silicon	22.6	23.1	-0.46	Both
Aluminum	13.0	13.3	-0.30	Both
Iron	9.29	8.09	1.20	Both
Titanium	0.56	0.79	-0.23	Both
Magnesium	0.15	0.40	-0.25	Both
Potassium	0.13	0.17	-0.04	Both
Manganese	0.02	-	-	XRF
Calcium	0.02	0.10	-0.08	Both
Phosphorus	0.02	-	-	XRF
Vanadium	0.02	-	-	XRF
Hydrogen	-	1.21	-	SQD
Sodium	-	0.06	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-20D (33-34)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	52.2	-	SQD
Silicon	26.6	27.5	-0.89	Both
Aluminum	11.2	11.7	-0.53	Both
Iron	6.83	5.98	0.85	Both
Titanium	0.64	0.66	-0.02	Both
Magnesium	0.53	0.47	0.05	Both
Potassium	0.42	0.46	-0.04	Both
Manganese	0.08	0.01	0.07	Both
Calcium	0.04	0.02	0.02	Both
Chromium	0.01	-	-	XRF
Phosphorus	0.01	-	-	XRF
Vanadium	0.01	-	-	XRF
Hydrogen	-	0.94	-	SQD
Sodium	-	0.01	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-18B (28-30)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	51.4	-	SQD
Silicon	31.7	32.0	-0.33	Both
Aluminum	9.56	9.65	-0.09	Both
Iron	3.20	2.58	0.62	Both
Sodium	0.64	1.08	-0.44	Both
Calcium	0.61	0.95	-0.34	Both
Magnesium	0.38	0.43	-0.05	Both
Titanium	0.35	0.30	0.05	Both
Potassium	0.29	0.32	-0.02	Both
Manganese	0.09	-	-	XRF
Chromium	0.01	-	-	XRF
Hydrogen	-	0.54	-	SQD
Fluorine	-	0.08	-	SQD
Zirconium	-	0.72	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-18B (37-39)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	50.1	-	SQD
Silicon	30.1	30.6	-0.42	Both
Aluminum	8.88	9.13	-0.24	Both
Iron	4.06	3.69	0.38	Both
Calcium	1.62	1.73	-0.11	Both
Magnesium	1.30	1.39	-0.09	Both
Sodium	1.25	1.37	-0.12	Both
Potassium	0.67	0.80	-0.13	Both
Titanium	0.43	0.54	-0.12	Both
Manganese	0.10	-	-	XRF
Chromium	0.01	-	-	XRF
Phosphorus	0.01	-	-	XRF
Hydrogen	-	0.48	-	SQD
Fluorine	-	0.21	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-18C (32-34)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	51.0	-	SQD
Silicon	23.0	25.2	-2.20	Both
Aluminum	12.6	12.4	0.18	Both
Iron	9.37	7.71	1.65	Both
Titanium	0.82	0.86	-0.04	Both
Magnesium	0.25	-	-	XRF
Manganese	0.20	-	-	XRF
Potassium	0.14	0.27	-0.13	Both
Phosphorus	0.03	-	-	XRF
Calcium	0.03	0.03	0.00	Both
Vanadium	0.02	-	-	XRF
Hydrogen	-	1.00	-	SQD
Sulfur	-	1.54	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-18C (43-45)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	49.8	-	SQD
Silicon	21.1	21.6	-0.54	Both
Aluminum	13.1	13.4	-0.37	Both
Iron	10.5	10.3	0.27	Both
Titanium	0.89	1.12	-0.23	Both
Magnesium	0.30	0.51	-0.21	Both
Manganese	0.23	0.01	0.23	Both
Potassium	0.17	0.43	-0.27	Both
Calcium	0.16	0.22	-0.06	Both
Phosphorus	0.09	-	-	XRF
Sodium	0.06	-	-	XRF
Vanadium	0.02	-	-	XRF
Hydrogen	-	1.07	-	SQD
Sulfur	-	1.49	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-18C (55-57)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	49.2	-	SQD
Silicon	30.8	31.2	-0.34	Both
Aluminum	9.01	8.93	0.08	Both
Iron	3.82	3.96	-0.14	Both
Calcium	2.34	2.09	0.25	Both
Sodium	1.85	2.04	-0.19	Both
Magnesium	0.77	1.17	-0.40	Both
Potassium	0.55	0.58	-0.03	Both
Titanium	0.37	0.34	0.03	Both
Manganese	0.09	-	-	XRF
Phosphorus	0.06	-	-	XRF
Chromium	0.01	-	-	XRF
Hydrogen	-	0.33	-	SQD
Fluorine	-	0.21	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-18D (28-30)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	49.7	-	SQD
Silicon	19.9	20.2	-0.30	Both
Aluminum	11.9	12.5	-0.62	Both
Iron	11.1	11.2	-0.11	Both
Magnesium	2.14	2.17	-0.03	Both
Calcium	1.59	1.85	-0.26	Both
Titanium	0.61	0.80	-0.19	Both
Potassium	0.31	0.07	0.24	Both
Manganese	0.29	-	-	XRF
Sodium	0.19	-	-	XRF
Chromium	0.08	-	-	XRF
Vanadium	0.03	-	-	XRF
Phosphorus	0.02	-	-	XRF
Hydrogen	-	1.11	-	SQD
Fluorine	-	0.44	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-18D (42.5-44.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	47.8	-	SQD
Silicon	21.9	22.5	-0.54	Both
Aluminum	10.2	10.7	-0.49	Both
Iron	9.35	9.18	0.17	Both
Calcium	3.77	4.07	-0.30	Both
Magnesium	3.03	2.72	0.31	Both
Titanium	0.69	0.66	0.03	Both
Sodium	0.57	0.40	0.17	Both
Potassium	0.27	0.37	-0.10	Both
Manganese	0.17	-	-	XRF
Phosphorus	0.05	-	-	XRF
Vanadium	0.03	-	-	XRF
Chromium	0.02	-	-	XRF
Hydrogen	-	0.71	-	SQD
Fluorine	-	0.91	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-18D (47.5-49.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	47.4	-	SQD
Silicon	22.4	22.7	-0.25	Both
Aluminum	10.7	10.7	0.00	Both
Iron	9.53	9.8	-0.22	Both
Calcium	3.77	4.09	-0.32	Both
Magnesium	2.27	2.22	0.05	Both
Sodium	0.96	1.06	-0.10	Both
Titanium	0.71	0.62	0.09	Both
Potassium	0.25	0.24	0.01	Both
Manganese	0.16	-	-	XRF
Phosphorus	0.07	-	-	XRF
Vanadium	0.03	-	-	XRF
Hydrogen	-	0.66	-	SQD
Fluorine	-	0.58	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-15A (31.3-33.3)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	51.7	-	SQD
Silicon	20.4	20.6	-0.21	Both
Aluminum	13.0	13.8	-0.81	Both
Iron	10.6	10.7	-0.08	Both
Titanium	0.85	0.80	0.05	Both
Magnesium	0.52	0.63	-0.11	Both
Manganese	0.22	0.35	-0.13	Both
Potassium	0.18	0.17	0.01	Both
Calcium	0.10	0.03	0.07	Both
Phosphorus	0.03	-	-	XRF
Chromium	0.03	-	-	XRF
Vanadium	0.02	-	-	XRF
Sodium	0.01	0.02	0.00	Both
Hydrogen	-	1.27	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-15A (42-44)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	50.1	-	SQD
Silicon	22.2	22.9	-0.70	Both
Aluminum	12.2	13.1	-0.84	Both
Iron	8.00	8.12	-0.12	Both
Calcium	1.64	1.48	0.16	Both
Magnesium	1.47	1.73	-0.26	Both
Titanium	0.79	0.97	-0.17	Both
Sodium	0.19	0.39	-0.19	Both
Potassium	0.17	0.25	-0.07	Both
Manganese	0.15	-	-	XRF
Phosphorus	0.04	-	-	XRF
Chromium	0.02	-	-	XRF
Vanadium	0.02	-	-	XRF
Hydrogen	-	0.98	-	SQD
Fluorine	-	0.59	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-15A (46-48)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	48.5	-	SQD
Silicon	24.5	25.5	-1.00	Both
Aluminum	9.52	10.0	-0.51	Both
Iron	6.90	6.64	0.26	Both
Calcium	3.85	4.19	-0.35	Both
Magnesium	3.00	2.60	0.40	Both
Titanium	0.47	0.50	-0.03	Both
Sodium	0.39	0.17	0.22	Both
Potassium	0.26	0.29	-0.03	Both
Manganese	0.14	-	-	XRF
Phosphorus	0.06	-	-	XRF
Vanadium	0.02	-	-	XRF
Chromium	0.01	-	-	XRF
Hydrogen	-	0.60	-	SQD
Fluorine	-	0.96	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-15C (28-30)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	50.9	-	SQD
Silicon	18.1	18.7	-0.53	Both
Aluminum	14.6	15.0	-0.39	Both
Iron	11.9	12.1	-0.22	Both
Titanium	0.81	0.96	-0.16	Both
Magnesium	0.54	0.46	0.08	Both
Potassium	0.37	0.39	-0.02	Both
Manganese	0.17	0.19	-0.02	Both
Phosphorus	0.03	0.07	-0.04	Both
Vanadium	0.03	-	-	XRF
Calcium	0.02	-	-	XRF
Chromium	0.01	-	-	XRF
Hydrogen	-	1.28	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-15C (43-45)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	51.4	-	SQD
Silicon	25.2	26.0	-0.80	Both
Aluminum	11.2	11.6	-0.46	Both
Iron	8.02	8.17	-0.15	Both
Titanium	0.53	0.53	0.00	Both
Calcium	0.43	0.62	-0.19	Both
Magnesium	0.35	0.38	-0.03	Both
Manganese	0.17	-	-	XRF
Potassium	0.15	0.16	-0.01	Both
Phosphorus	0.06	-	-	XRF
Sodium	0.04	-	-	XRF
Vanadium	0.02	-	-	XRF
Hydrogen	-	0.93	-	SQD
Fluorine	-	0.15	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-15B (28-30)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	52.3	-	SQD
Silicon	26.1	26.9	-0.83	Both
Aluminum	11.6	11.6	0.01	Both
Iron	7.50	7.55	-0.06	Both
Titanium	0.64	0.64	0.00	Both
Manganese	0.14	-	-	XRF
Magnesium	0.06	-	-	XRF
Potassium	0.04	-	-	XRF
Vanadium	0.02	-	-	XRF
Phosphorus	0.02	-	-	XRF
Calcium	0.01	-	-	XRF
Hydrogen	-	0.97	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

Chemical Balance

SGWC-15B (42-44)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	52.1	-	SQD
Silicon	25.4	26.4	-0.97	Both
Aluminum	11.3	11.6	-0.36	Both
Iron	8.22	8.34	-0.12	Both
Titanium	0.55	0.54	0.01	Both
Magnesium	0.15	-	-	XRF
Manganese	0.14	-	-	XRF
Calcium	0.09	-	-	XRF
Potassium	0.07	-	-	XRF
Phosphorus	0.04	-	-	XRF
Vanadium	0.03	-	-	XRF
Hydrogen	-	0.99	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

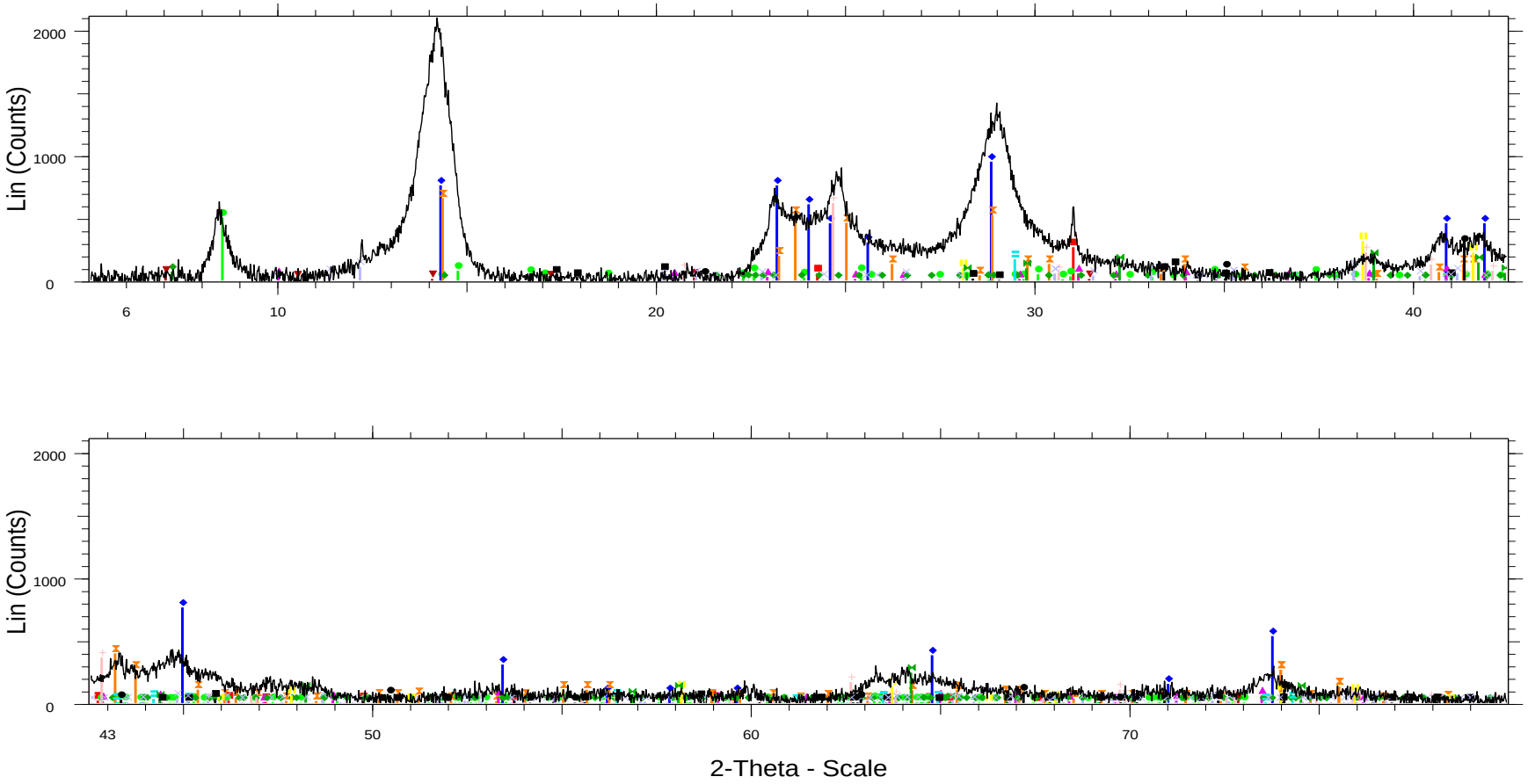
SGWC-15B (48-50)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	49.3	-	SQD
Silicon	22.6	23.6	-0.96	Both
Aluminum	10.5	10.7	-0.16	Both
Iron	8.99	8.87	0.11	Both
Calcium	2.35	2.93	-0.57	Both
Magnesium	2.21	1.92	0.29	Both
Titanium	0.50	0.59	-0.08	Both
Potassium	0.35	0.44	-0.09	Both
Sodium	0.25	0.28	-0.02	Both
Manganese	0.20	-	-	XRF
Chromium	0.05	-	-	XRF
Vanadium	0.02	-	-	XRF
Phosphorus	0.02	-	-	XRF
Hydrogen	-	0.80	-	SQD
Fluorine	-	0.65	-	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

SGWC-20B (14-15)



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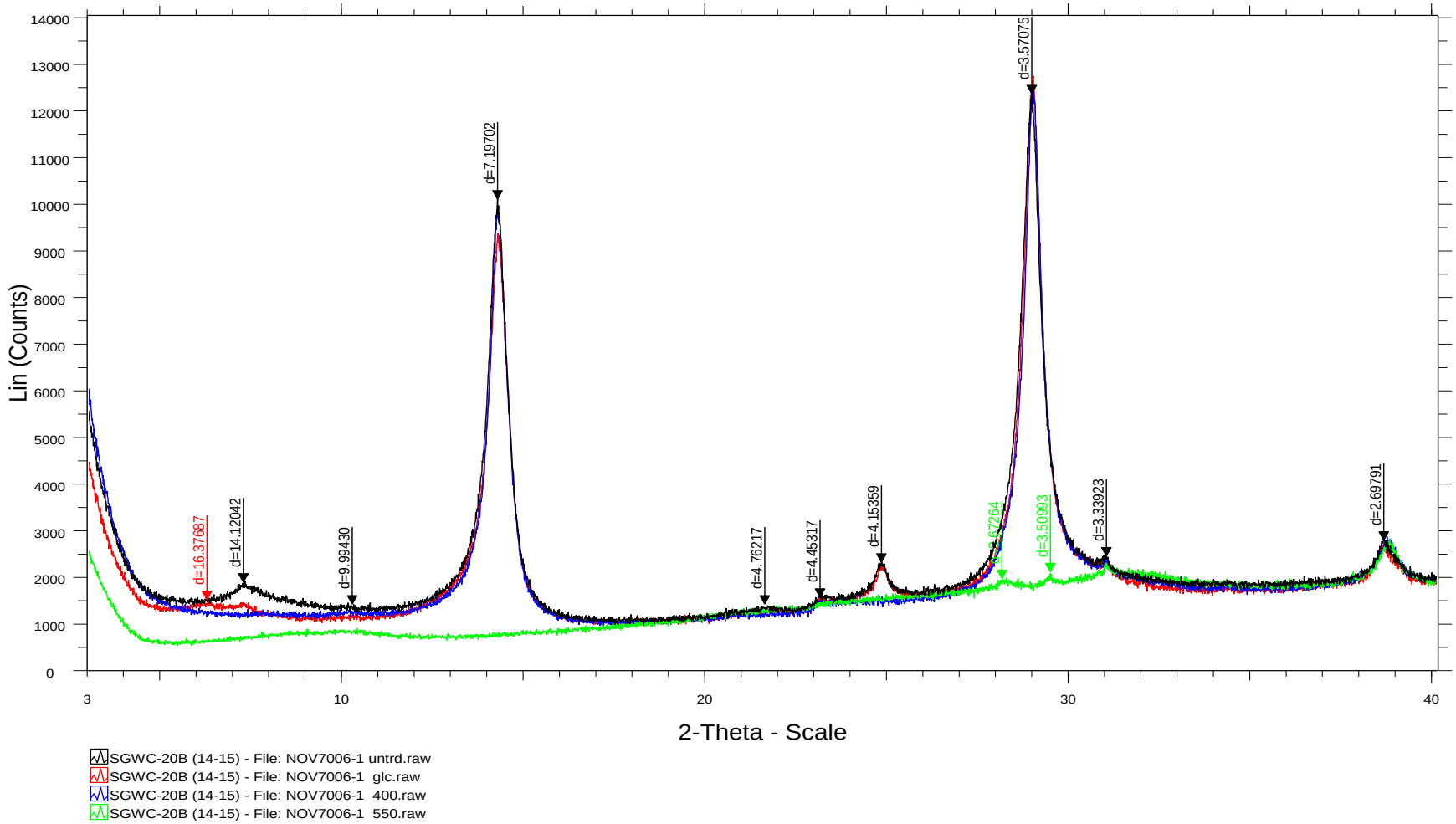

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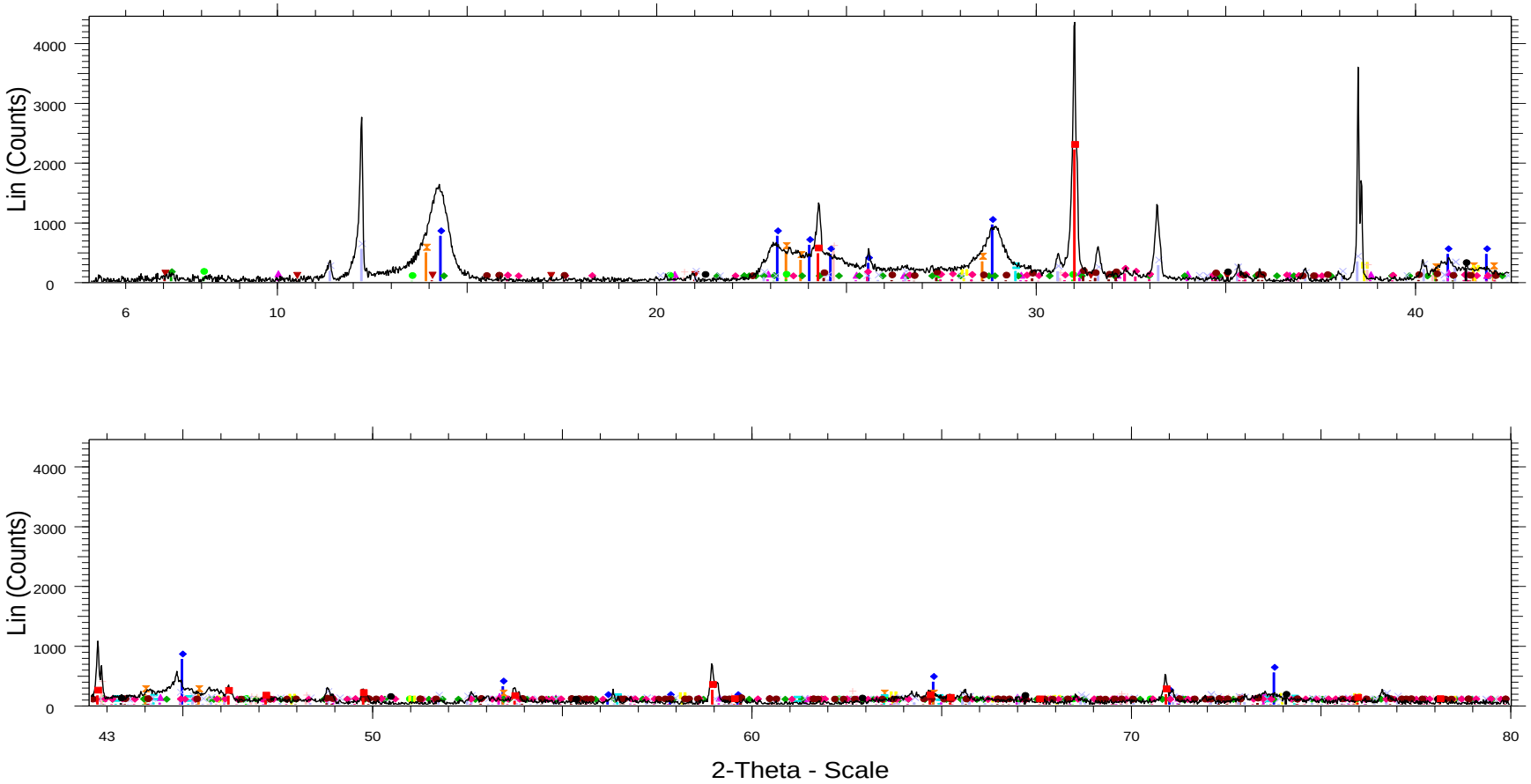

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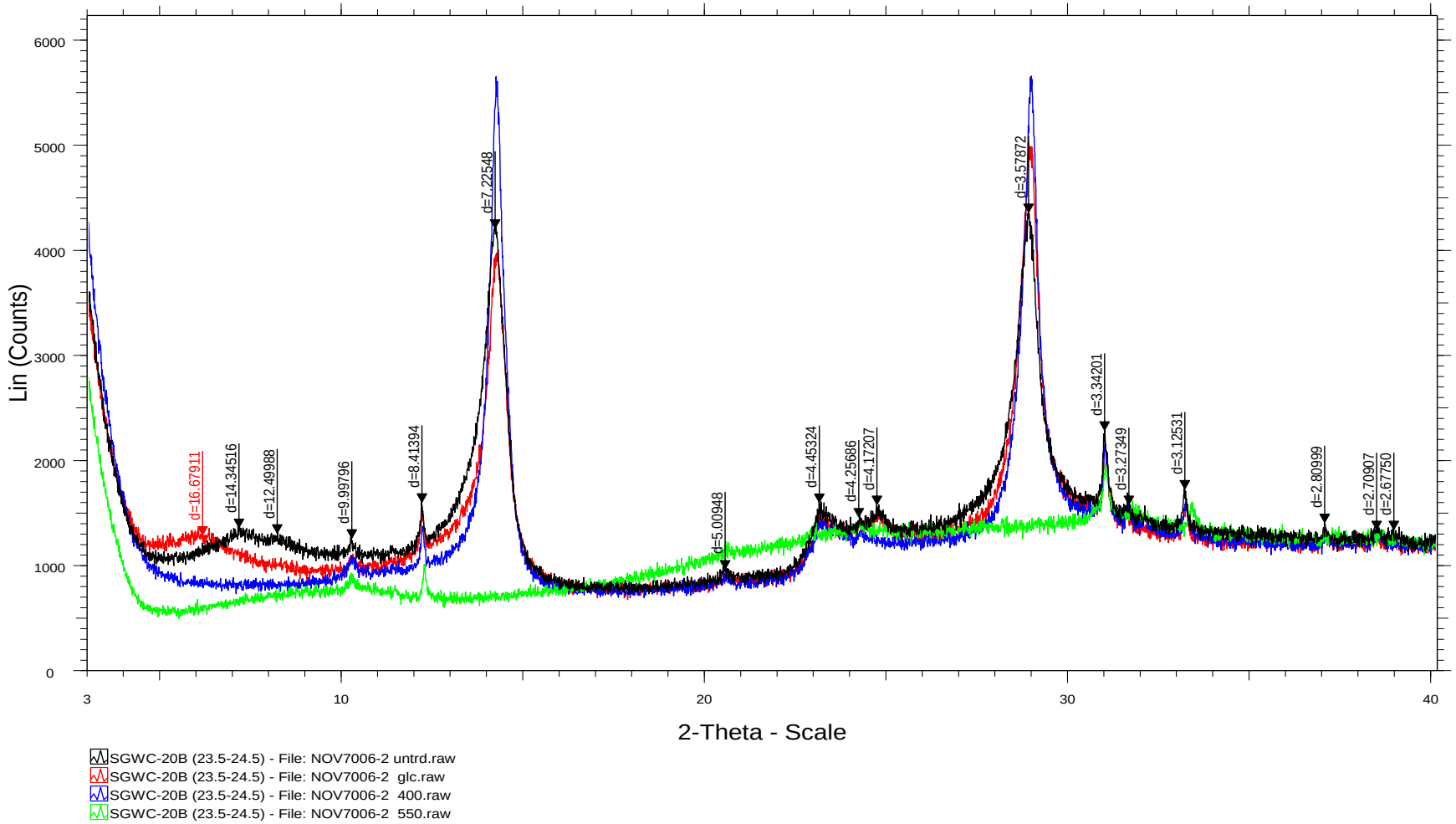
SGWC-20B (23.5-24.5)



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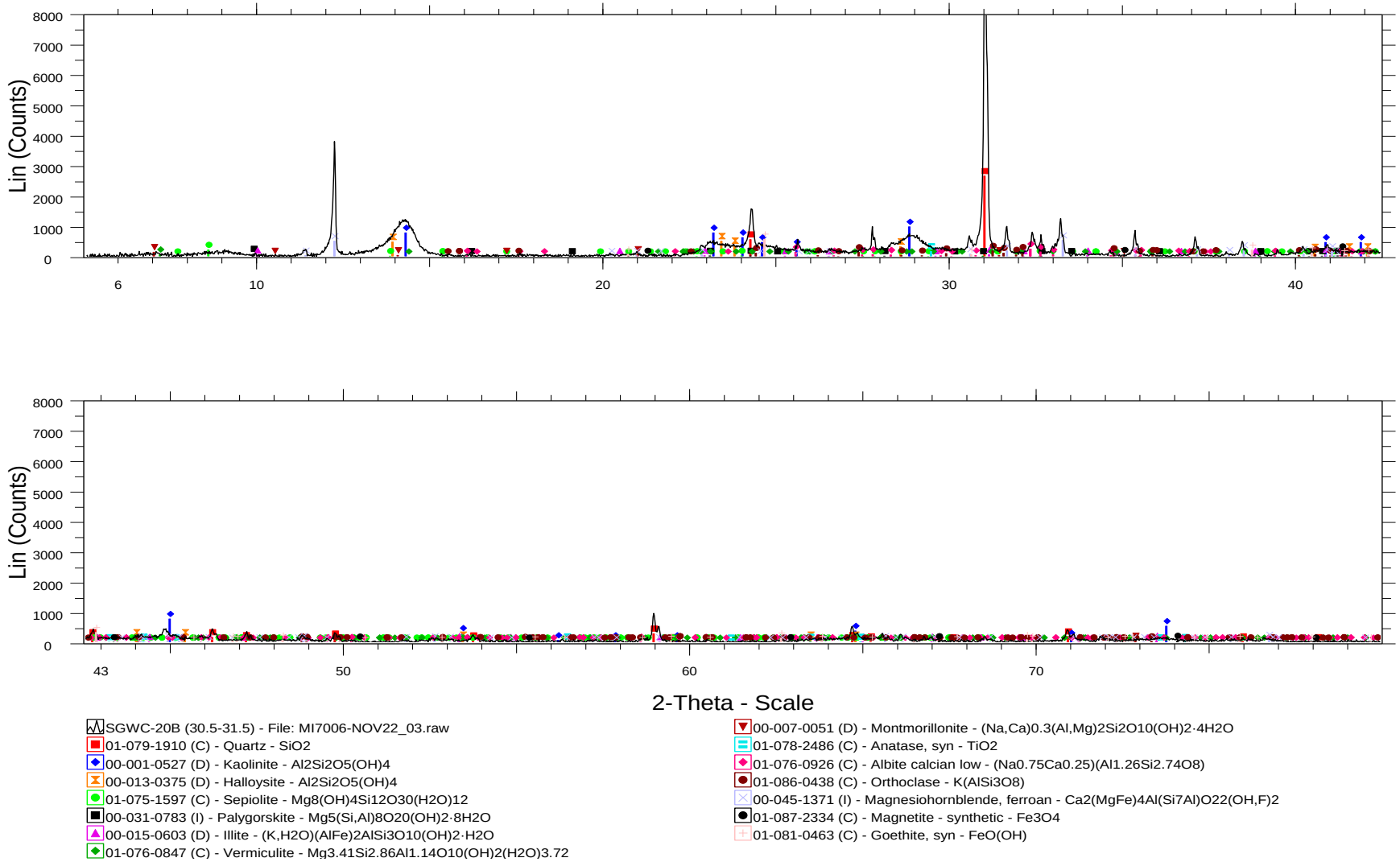

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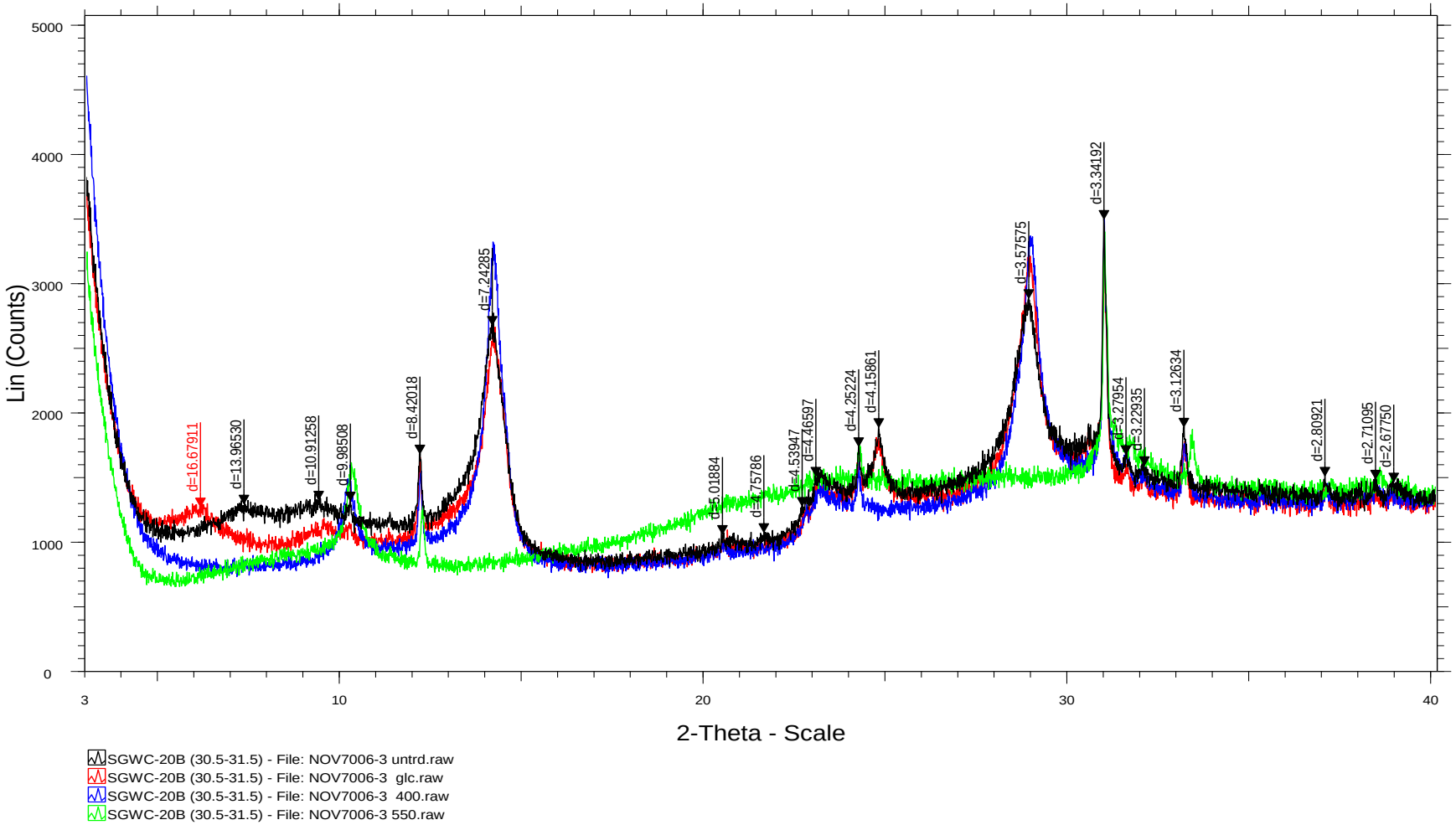

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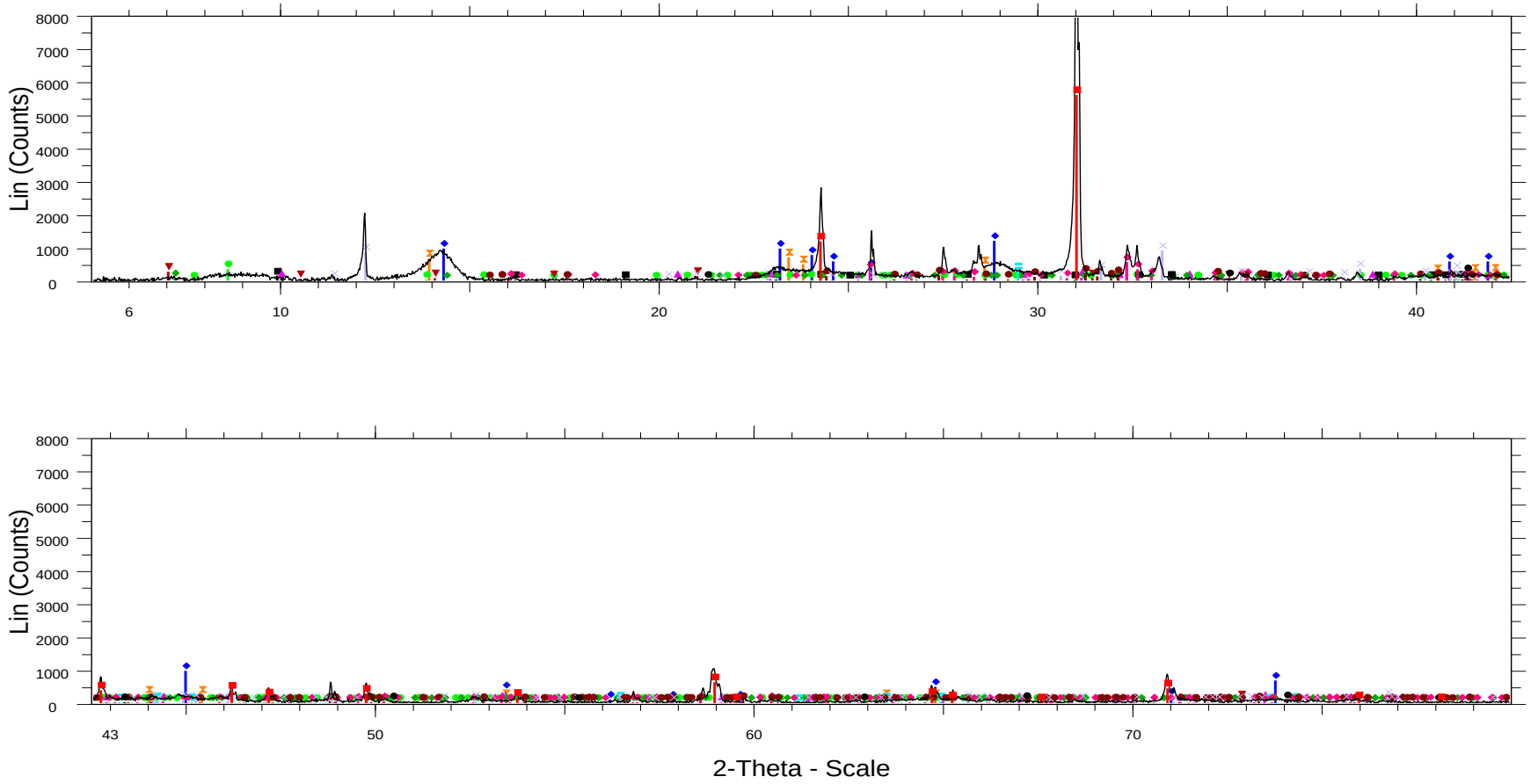
SGWC-20B (37.5-37.5)



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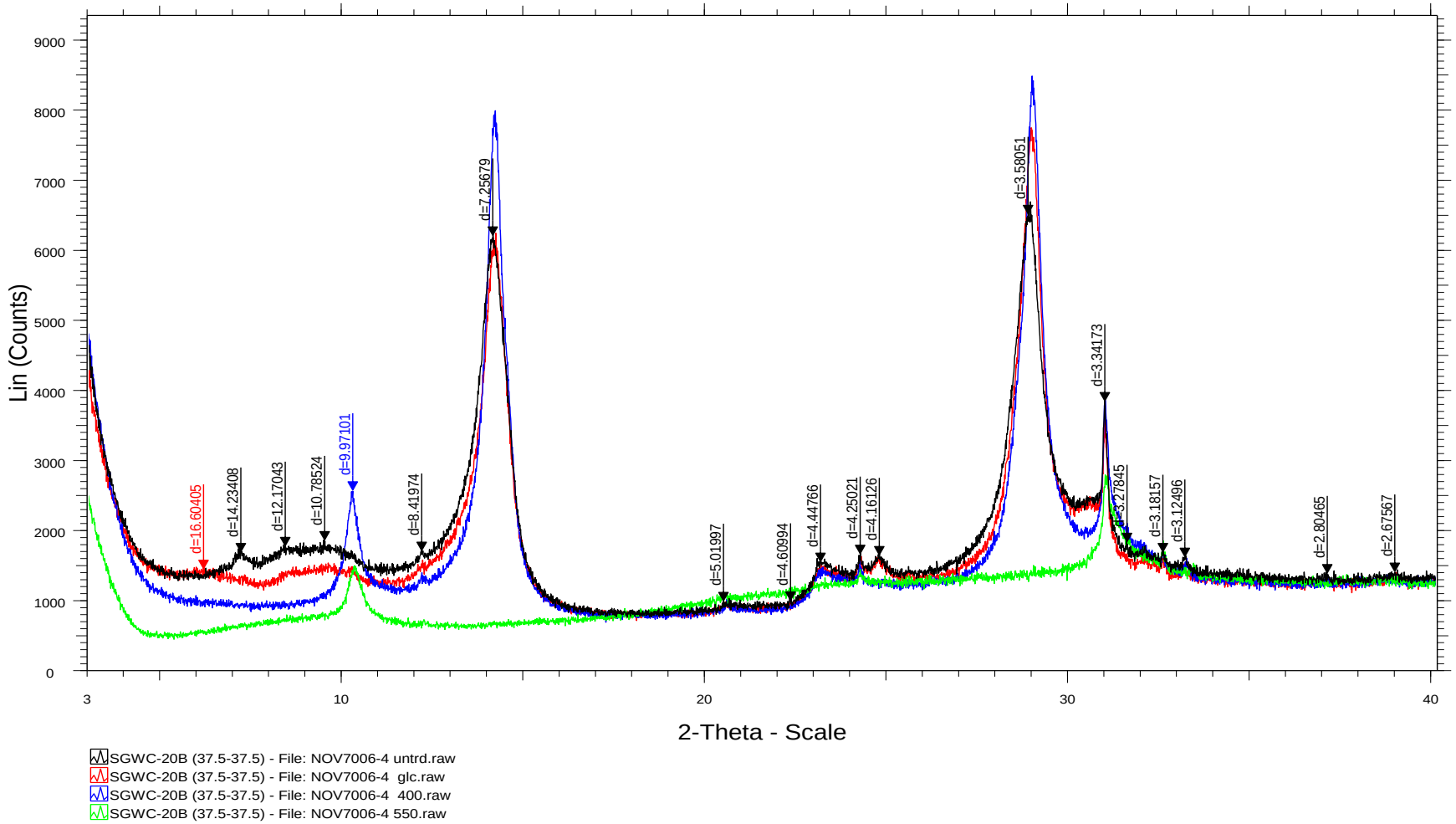
SGWC-20B (37.5-37.5)



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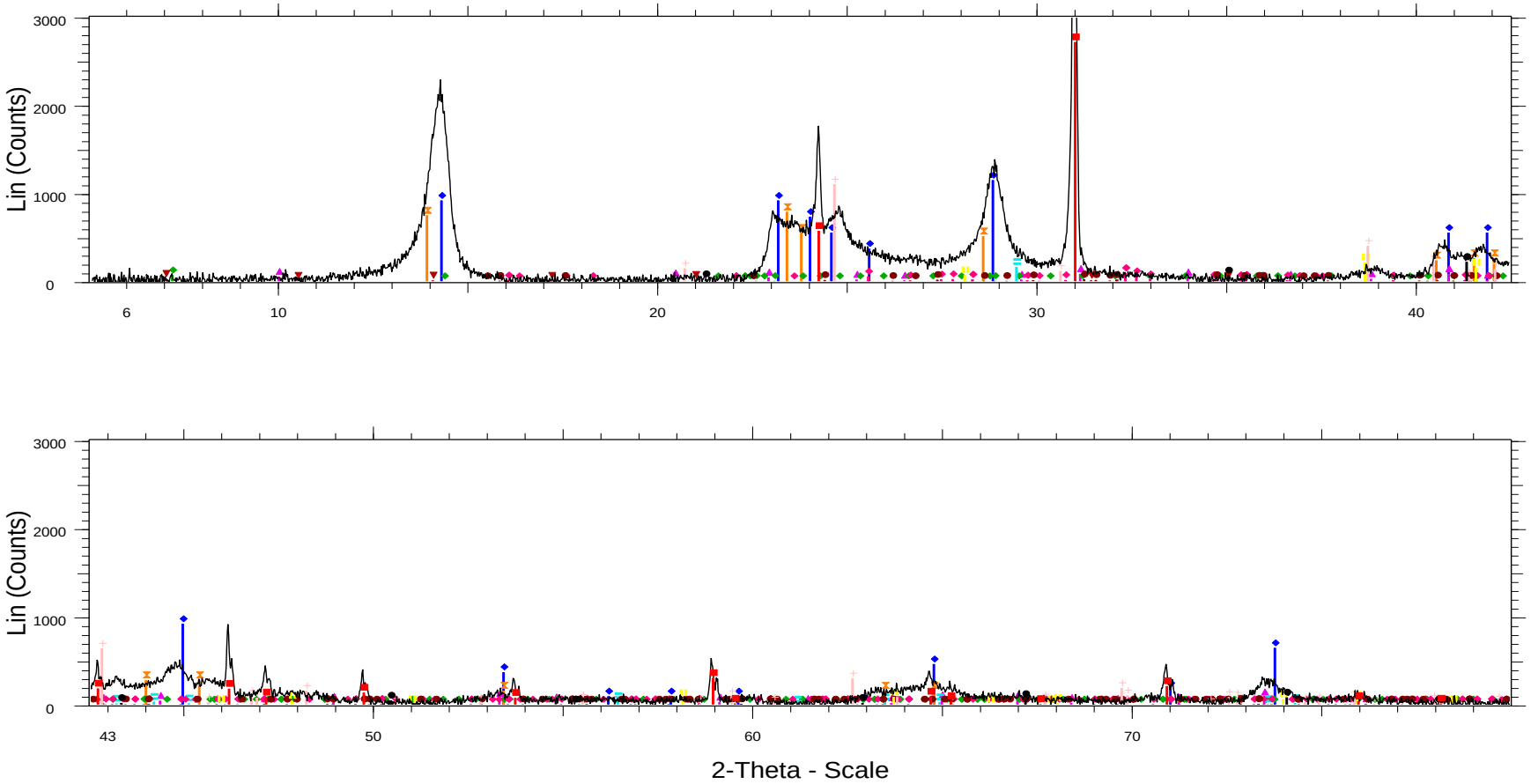
SGWC-20C (13-14)



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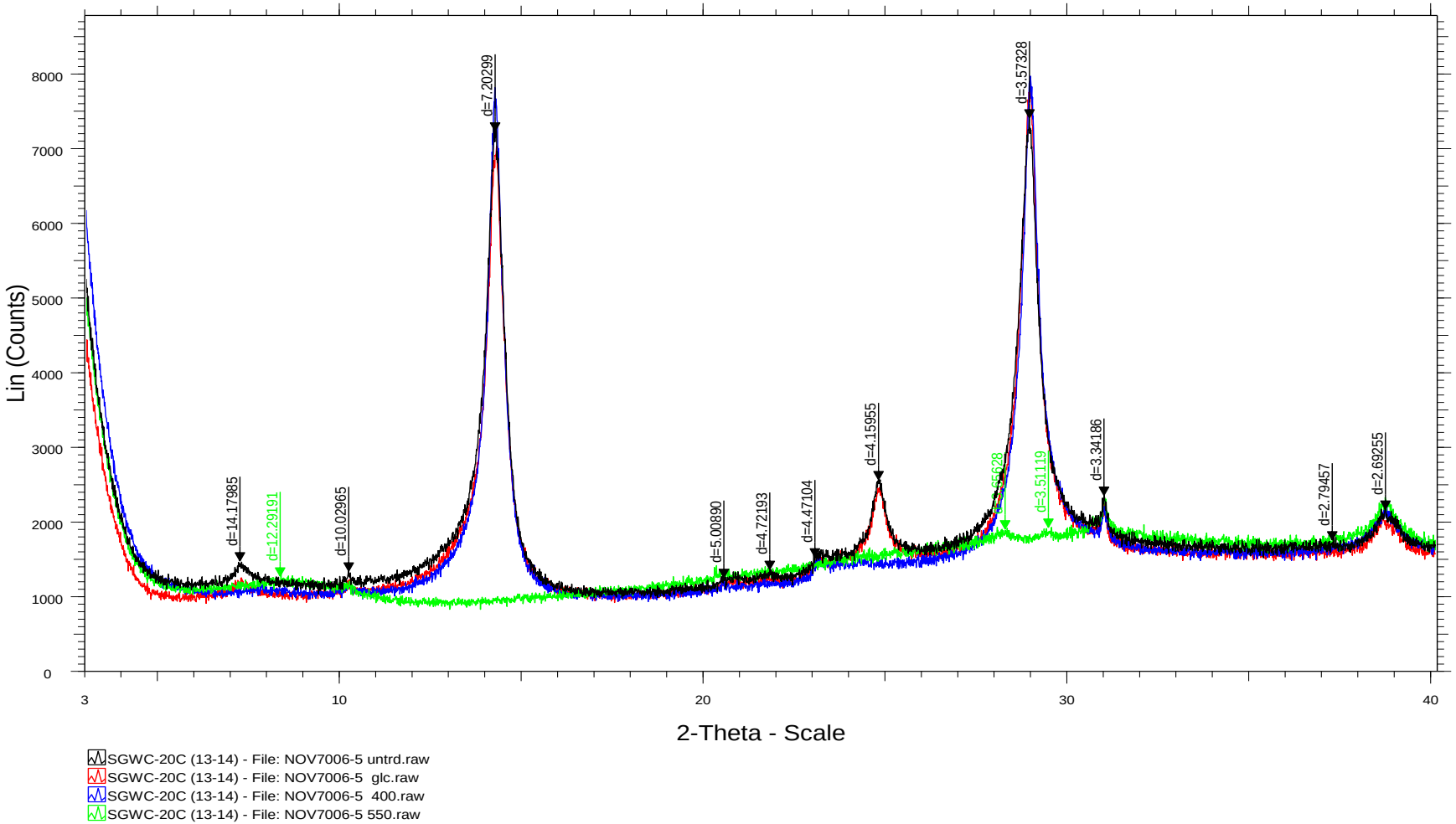
02/09/2023

SGWC-20C (13-14)



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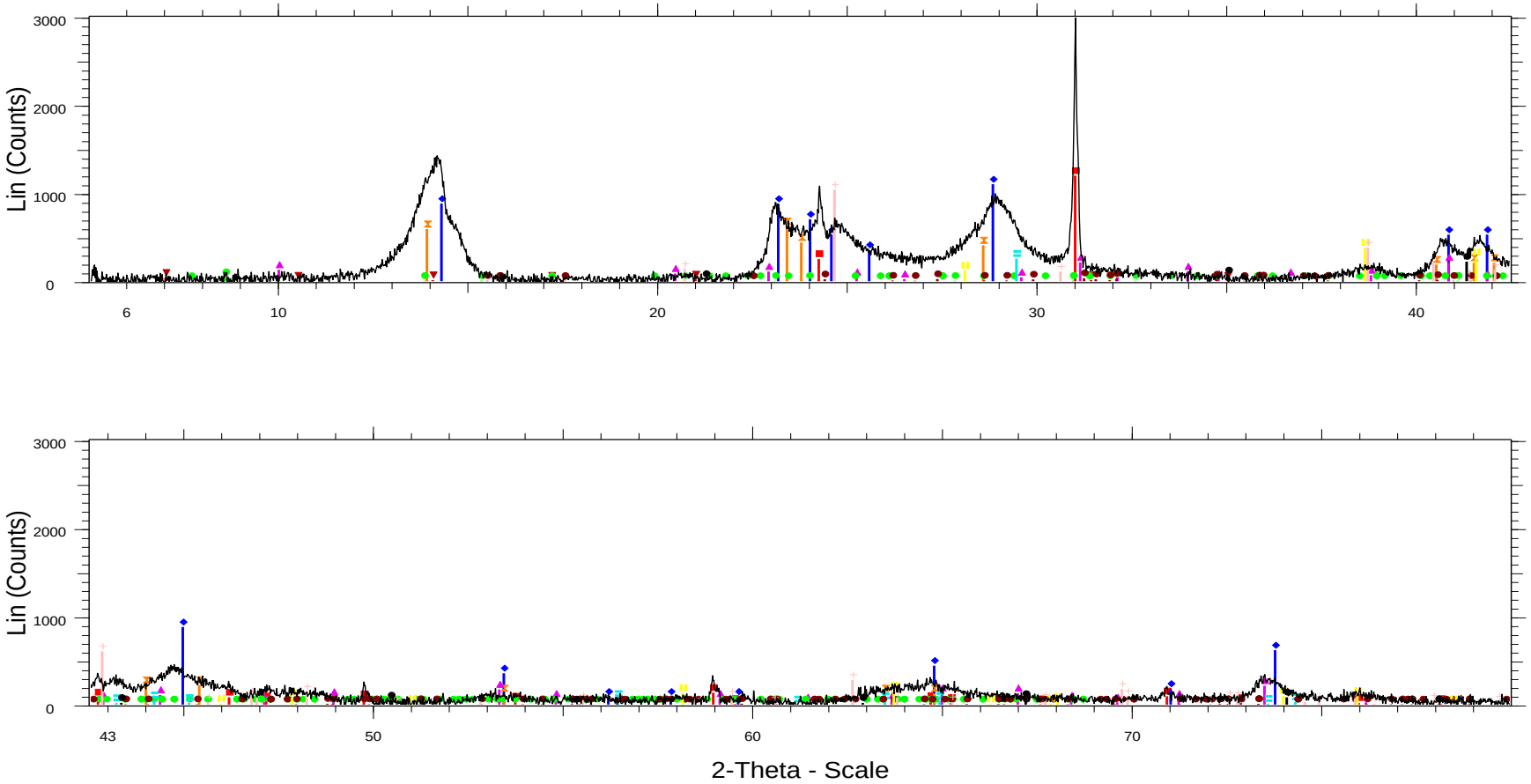
SGWC-20C (19-20)



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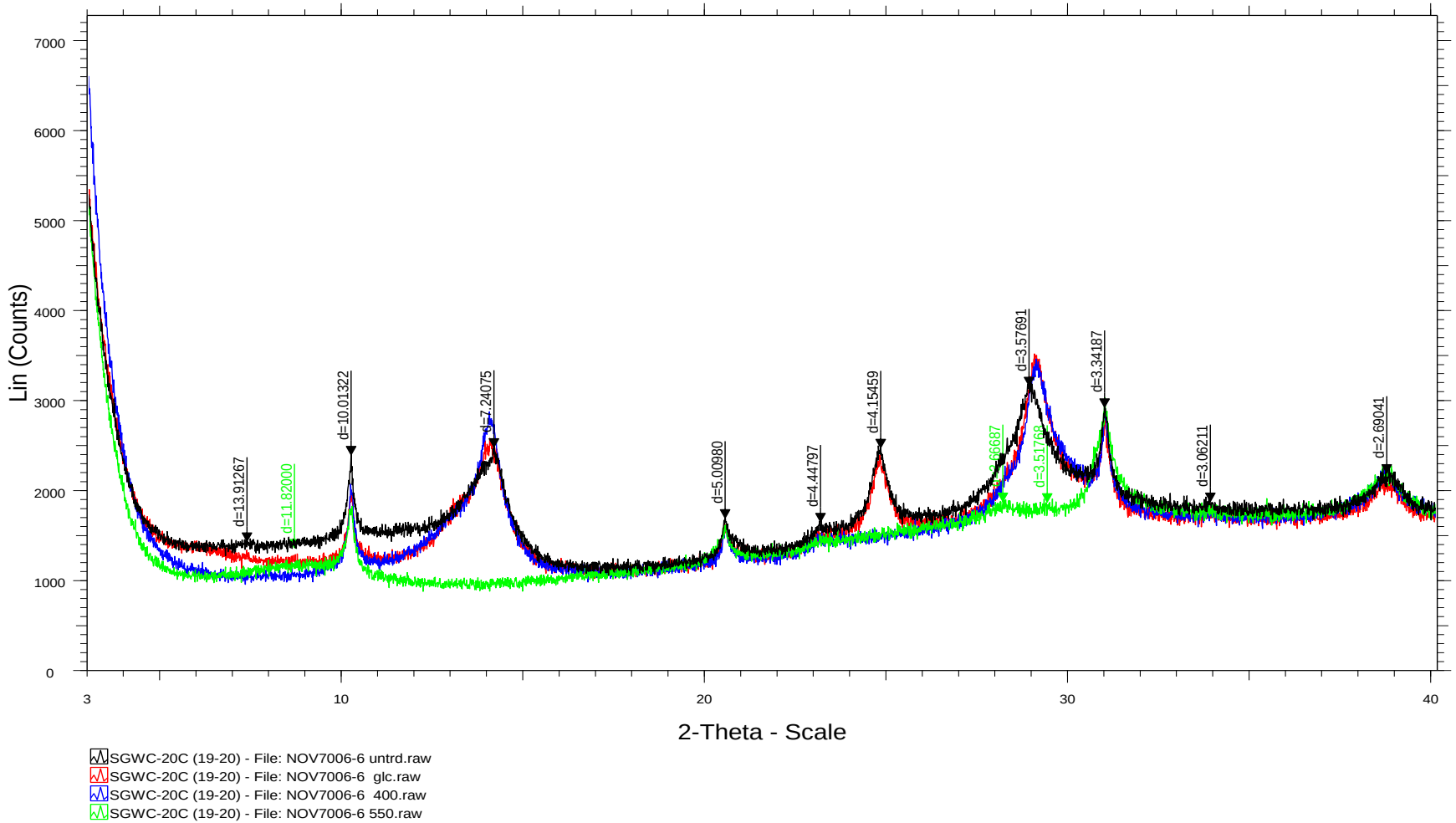
SGWC-20C (19-20)



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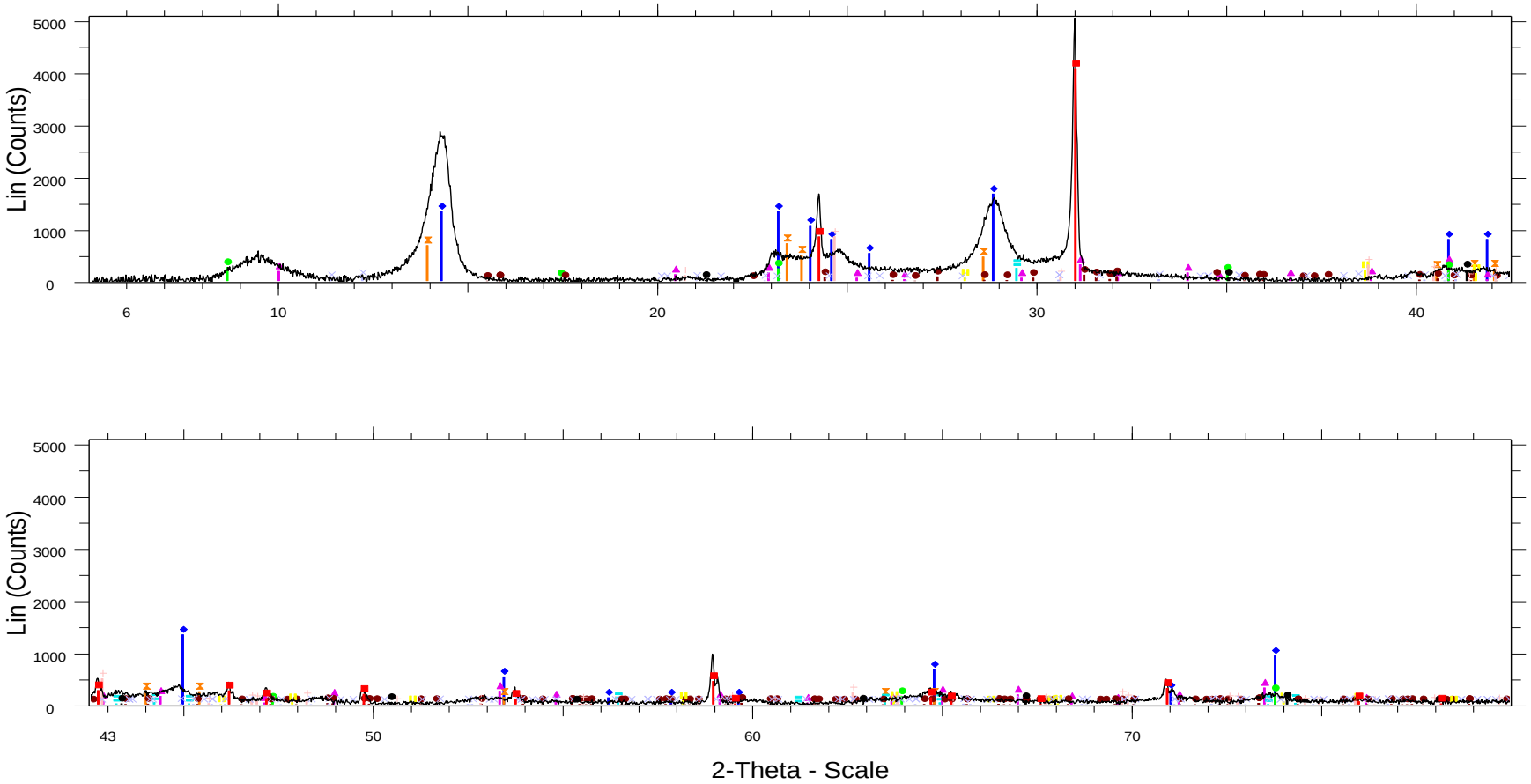
SGWC-20C (33.5-34.5)



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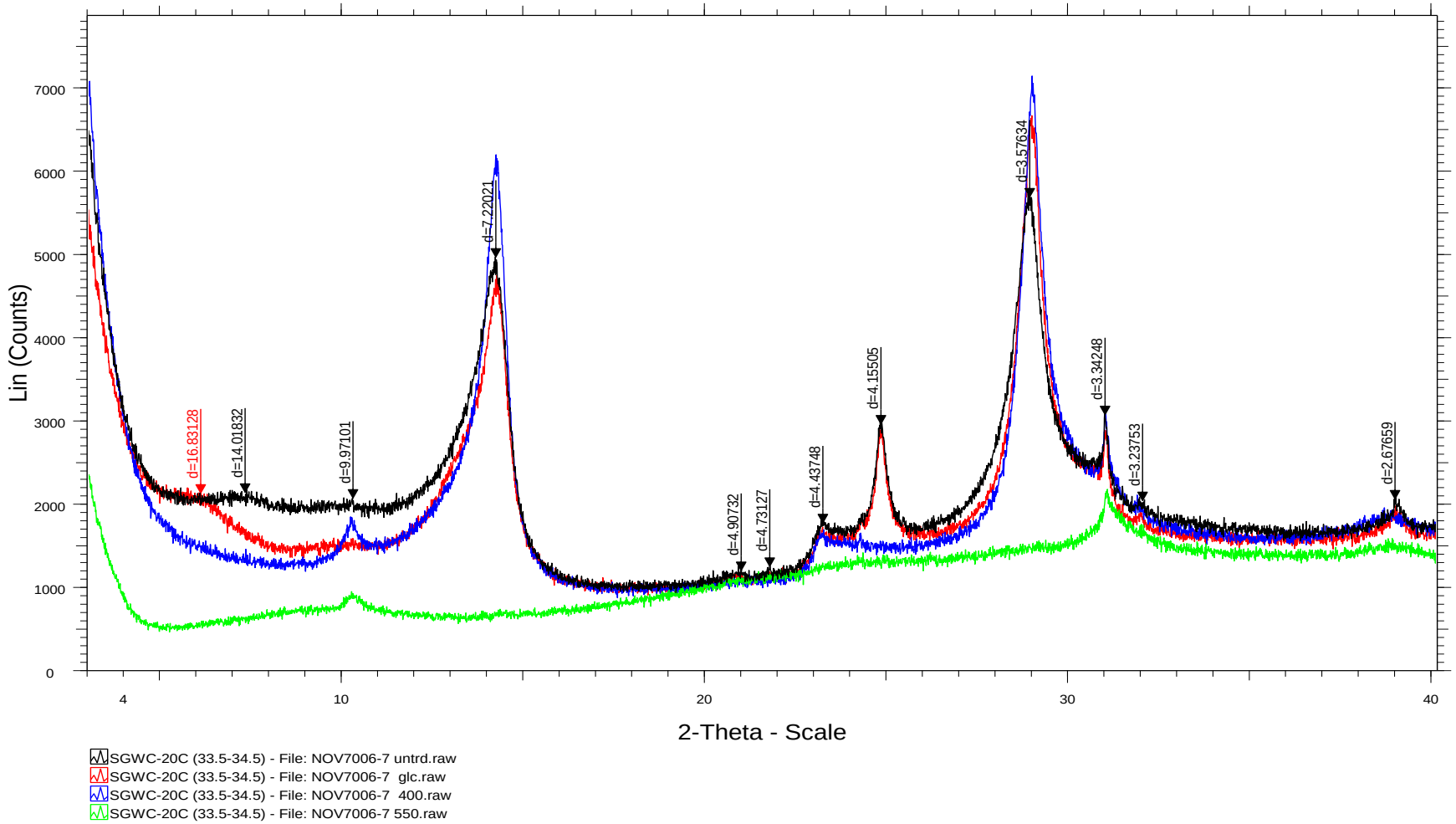
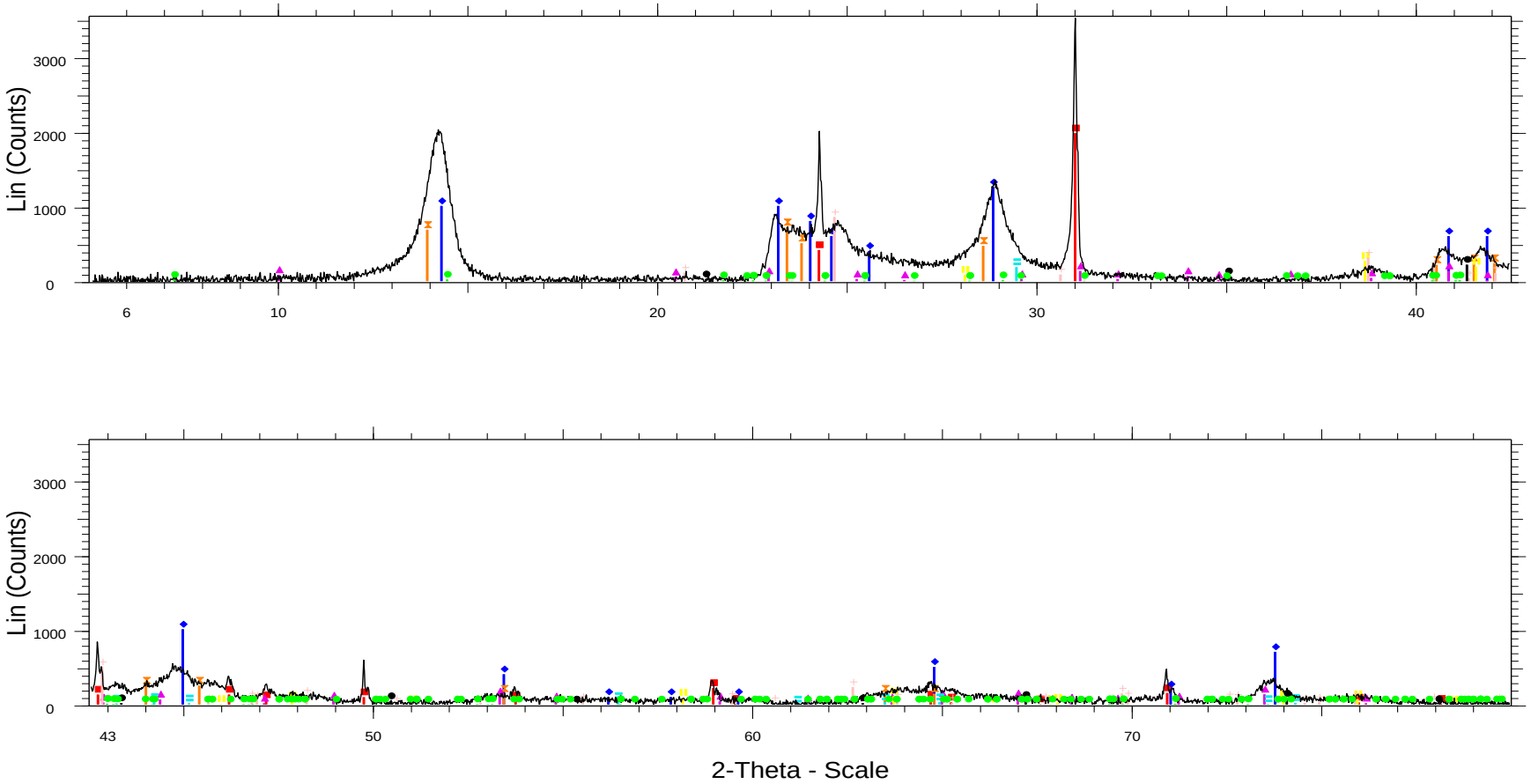
SGWC-20C (33.5-34.5)



SGWC-20D (8-9)


Lin (Counts)
3000
2000
1000
0
6
10
20
30
40
Lin (Counts)
3000
2000
1000
0
43
50
60
70
2-Theta - Scale
SGWC-20D (8-9) - File: MI7006-NOV22_08.raw
01-079-1910 (C) - Quartz - SiO2
00-001-0527 (D) - Kaolinite - Al2Si2O5(OH)4
00-013-0375 (D) - Halloysite - Al2Si2O5(OH)4
00-015-0603 (D) - Illite - (K,H2O)(AlFe)2AlSi3O10(OH)2·H2O
01-078-2486 (C) - Anatase, syn - TiO2
01-087-1166 (C) - Hematite - Fe2O3
01-081-0463 (C) - Goethite, syn - FeO(OH)
01-087-2334 (C) - Magnetite - synthetic - Fe3O4
01-080-1119 (C) - Clinochlore - Mg4.54Al0.97Fe0.46Mn0.03(Si2.85Al1.15O10)(OH)8

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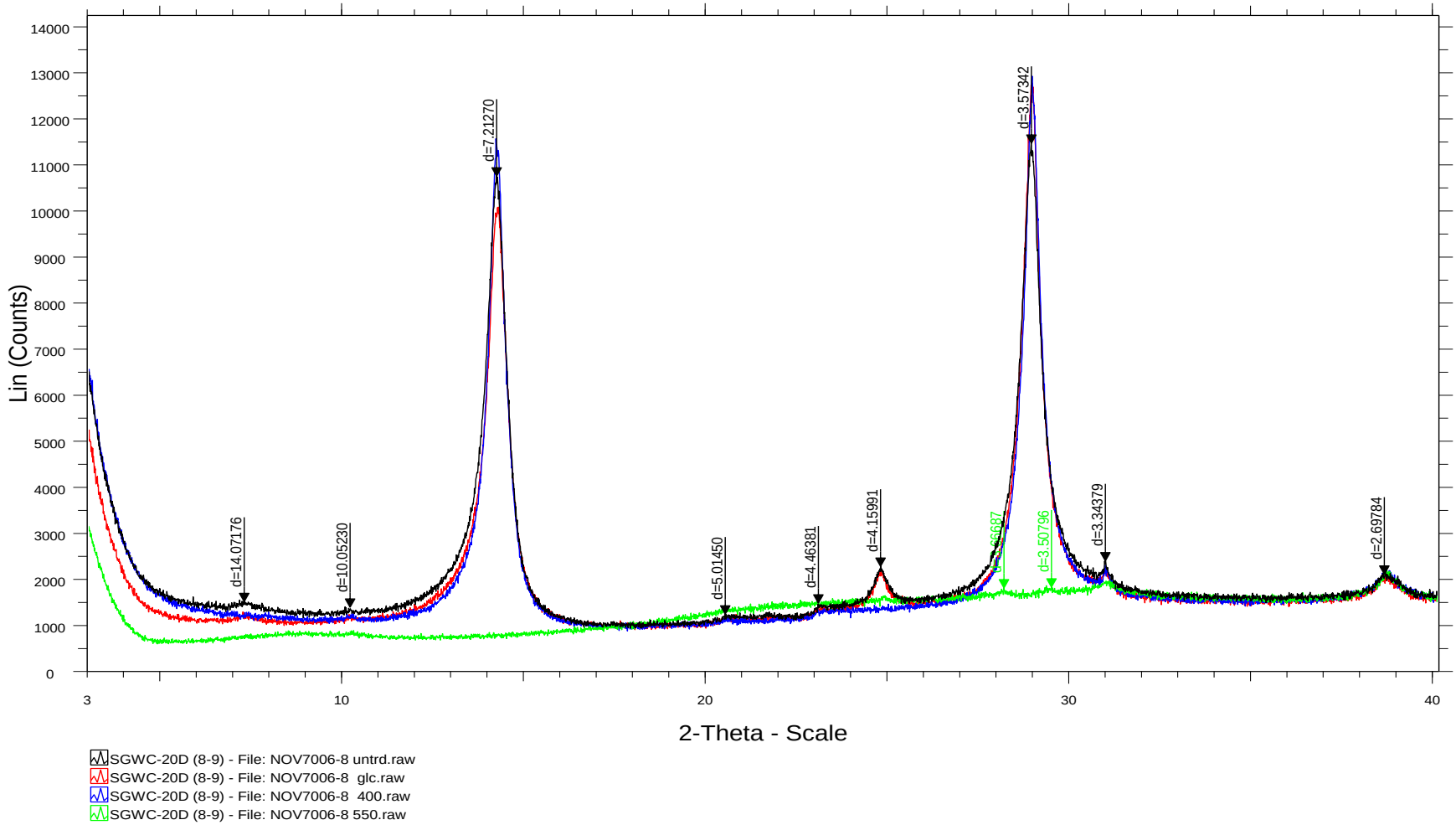
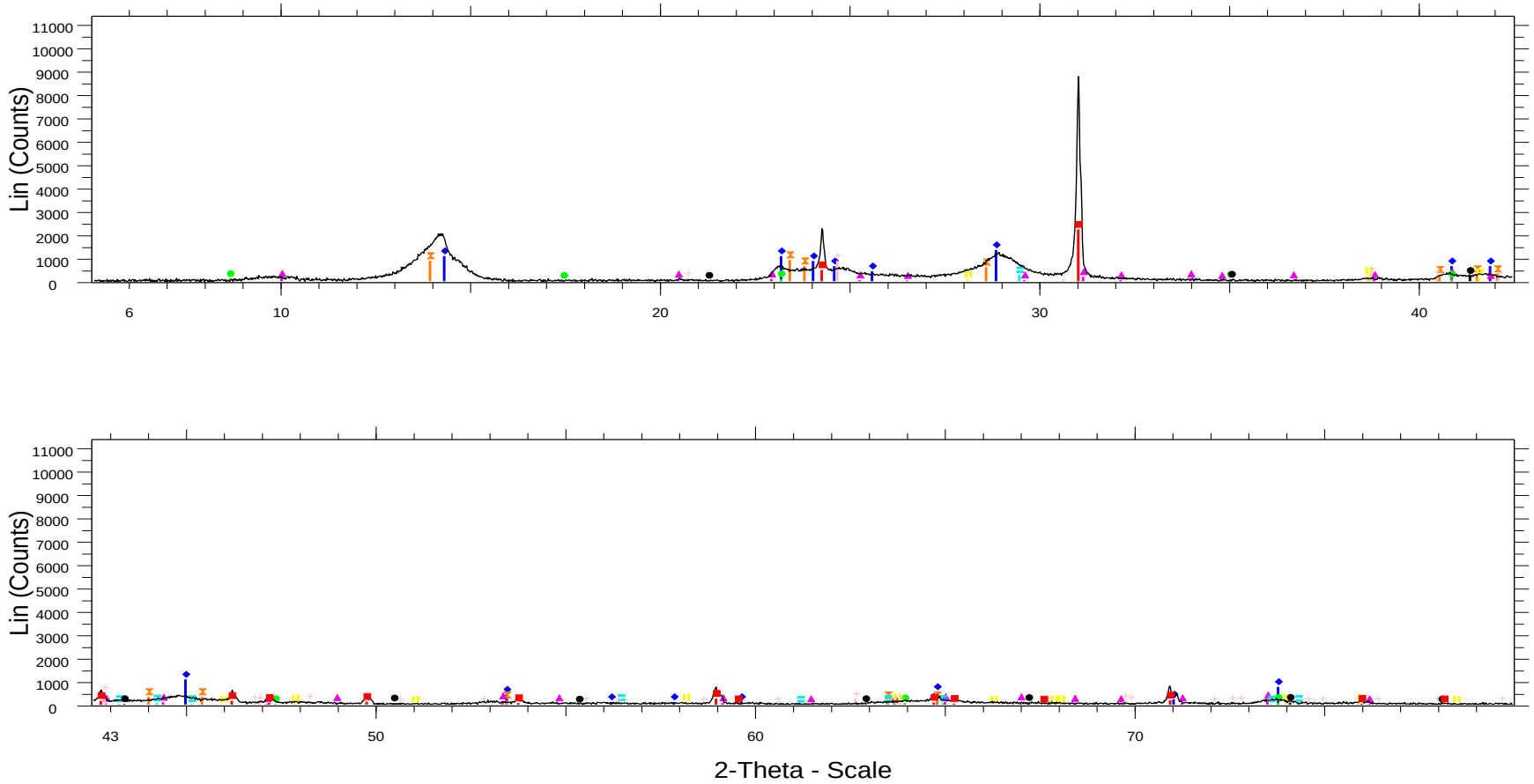
SGWC-20D (8-9)



SGWC-20D (18.5-19.5)



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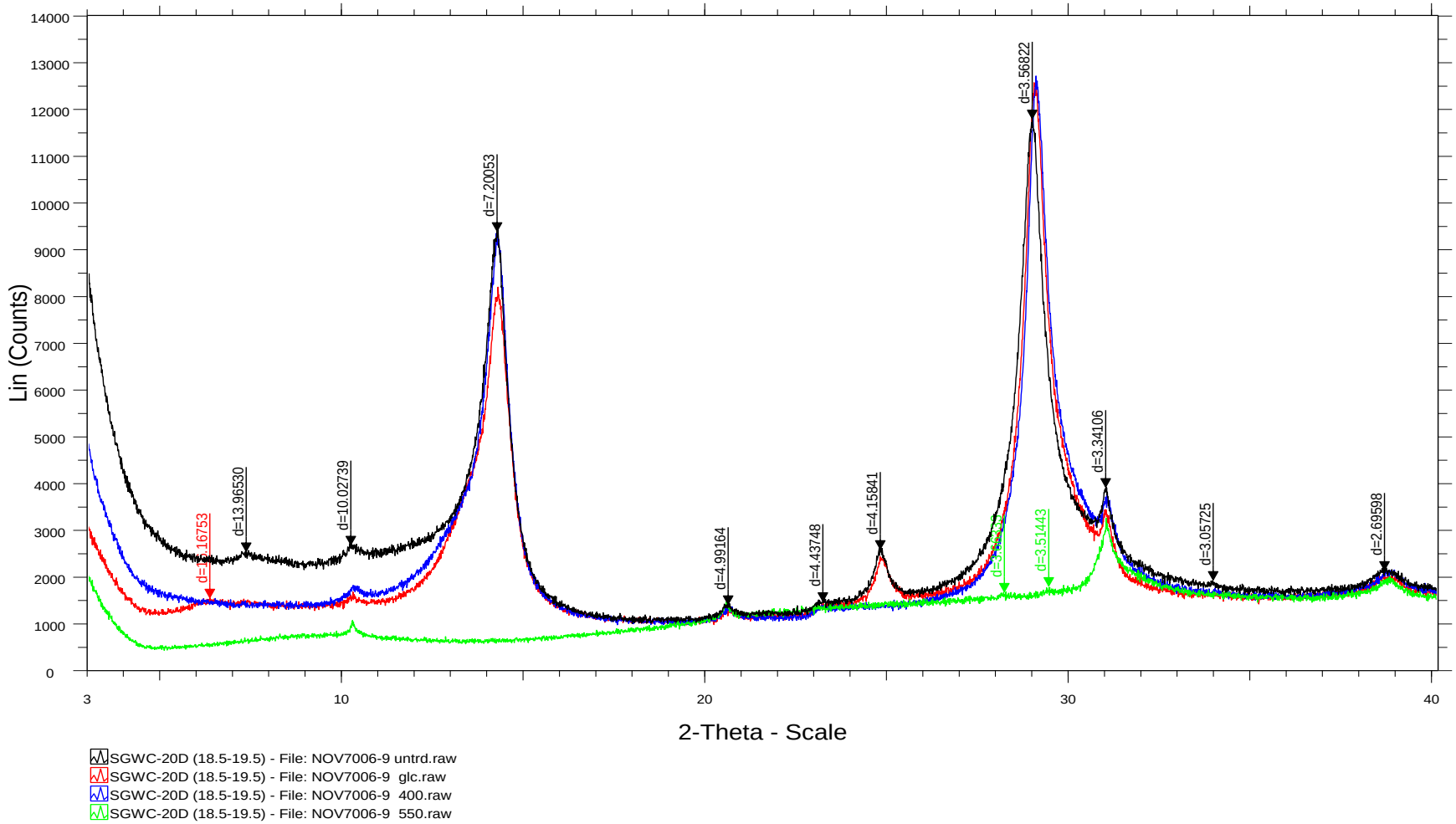
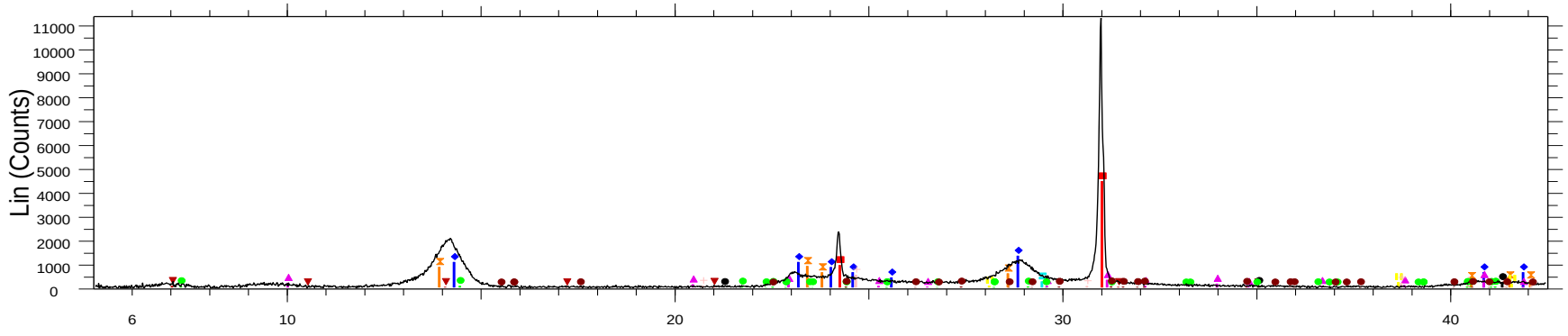
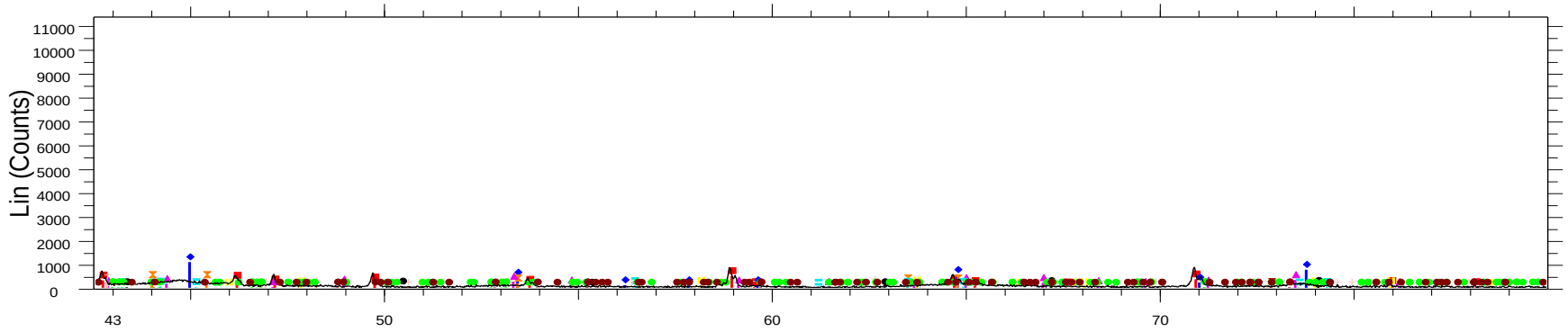
SGWC-20D (18.5-19.5)



SGWC-20D (33-34)





2-Theta - Scale

SGWC-20D (33-34) - File: MI7006-NOV22_10.raw
01-079-1910 (C) - Quartz - SiO2
00-001-0527 (D) - Kaolinite - Al2Si2O5(OH)4
00-007-0051 (D) - Montmorillonite - (Na,Ca)0.3(Al,Mg)2Si2O10(OH)2·4H2O
00-013-0375 (D) - Halloysite - Al2Si2O5(OH)4
00-015-0603 (D) - Illite - (K,H2O)(AlFe)2AlSi3O10(OH)2·H2O
01-078-2486 (C) - Anatase, syn - TiO2
01-087-1166 (C) - Hematite - Fe2O3
01-081-0463 (C) - Goethite, syn - FeO(OH)
01-087-2334 (C) - Magnetite - synthetic - Fe3O4
01-080-1119 (C) - Clinochlore - Mg4.54Al0.97Fe0.46Mn0.03(Si2.85Al1.15O10)(OH)8
01-086-0438 (C) - Orthoclase - K(AlSi3O8)

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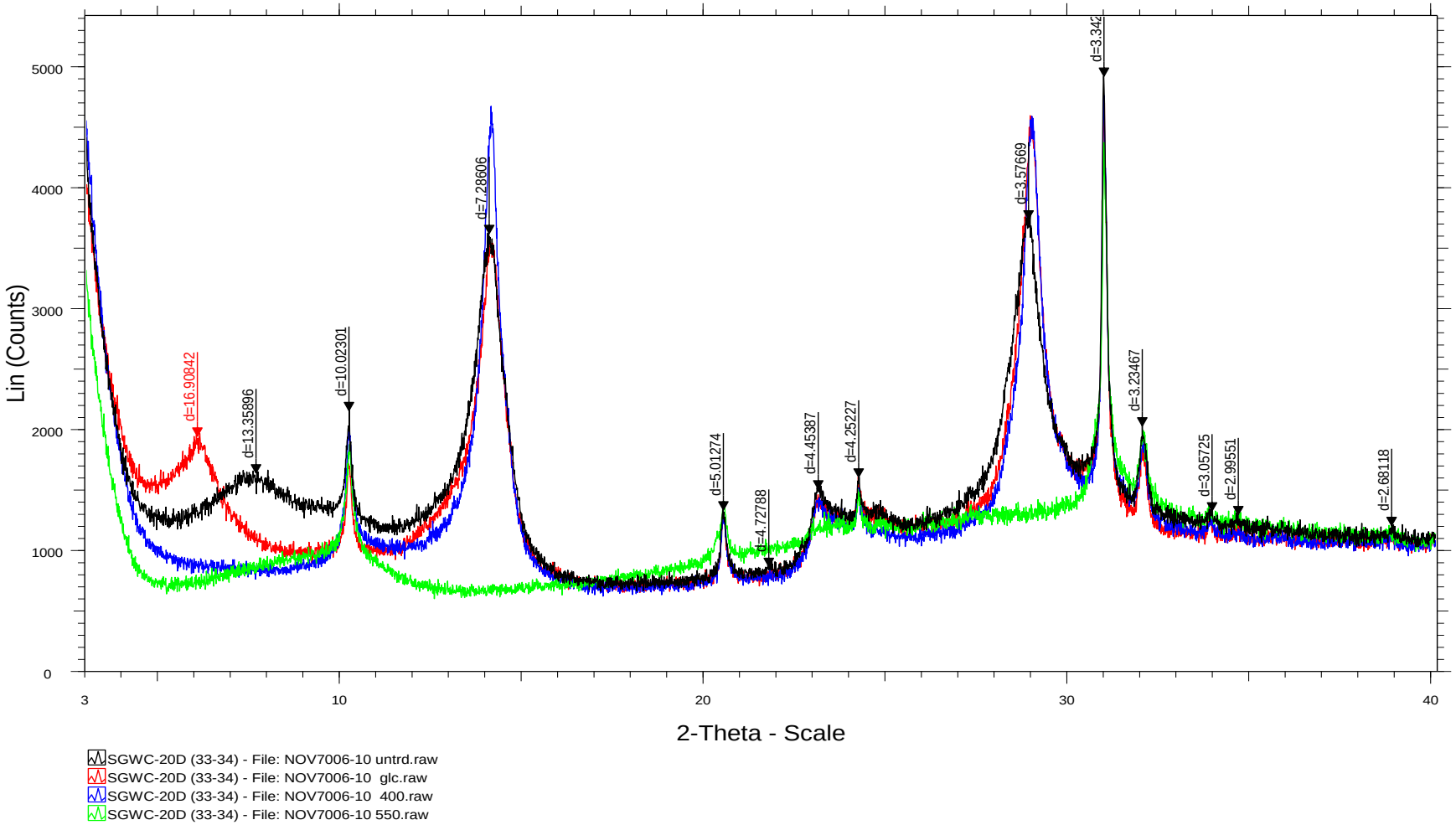
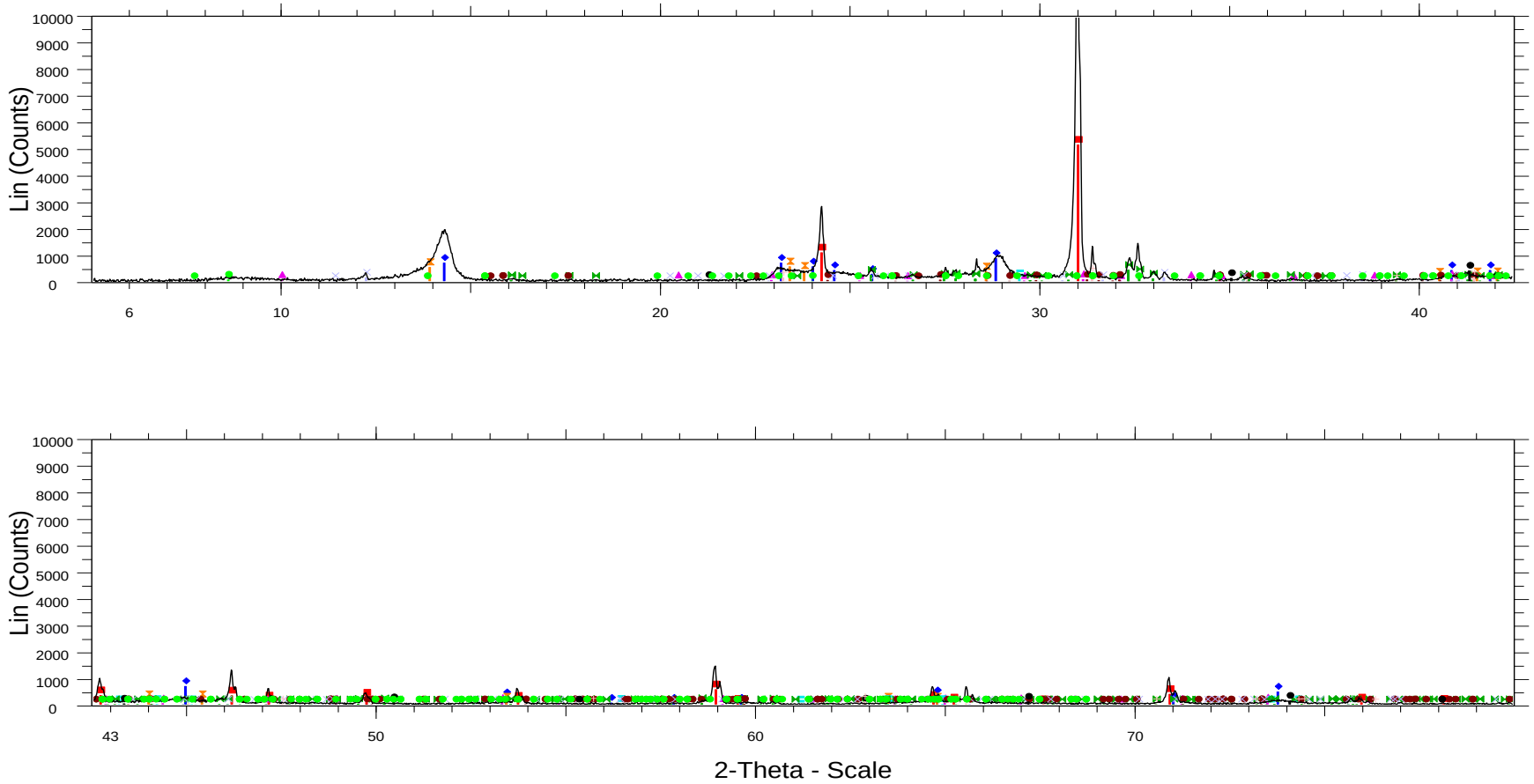
SGWC-20D (33-34)



SGWC-18B (28-30)



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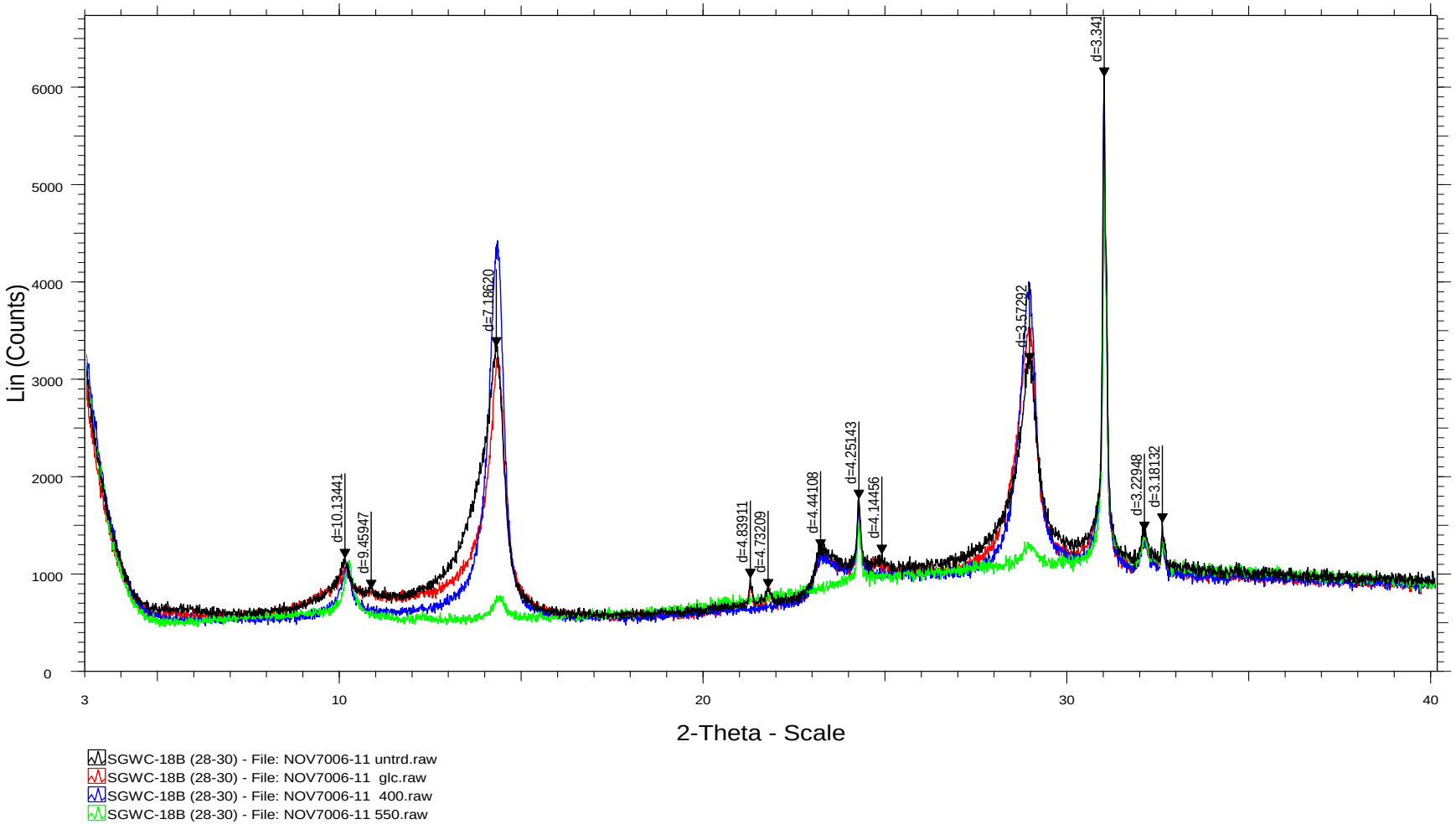
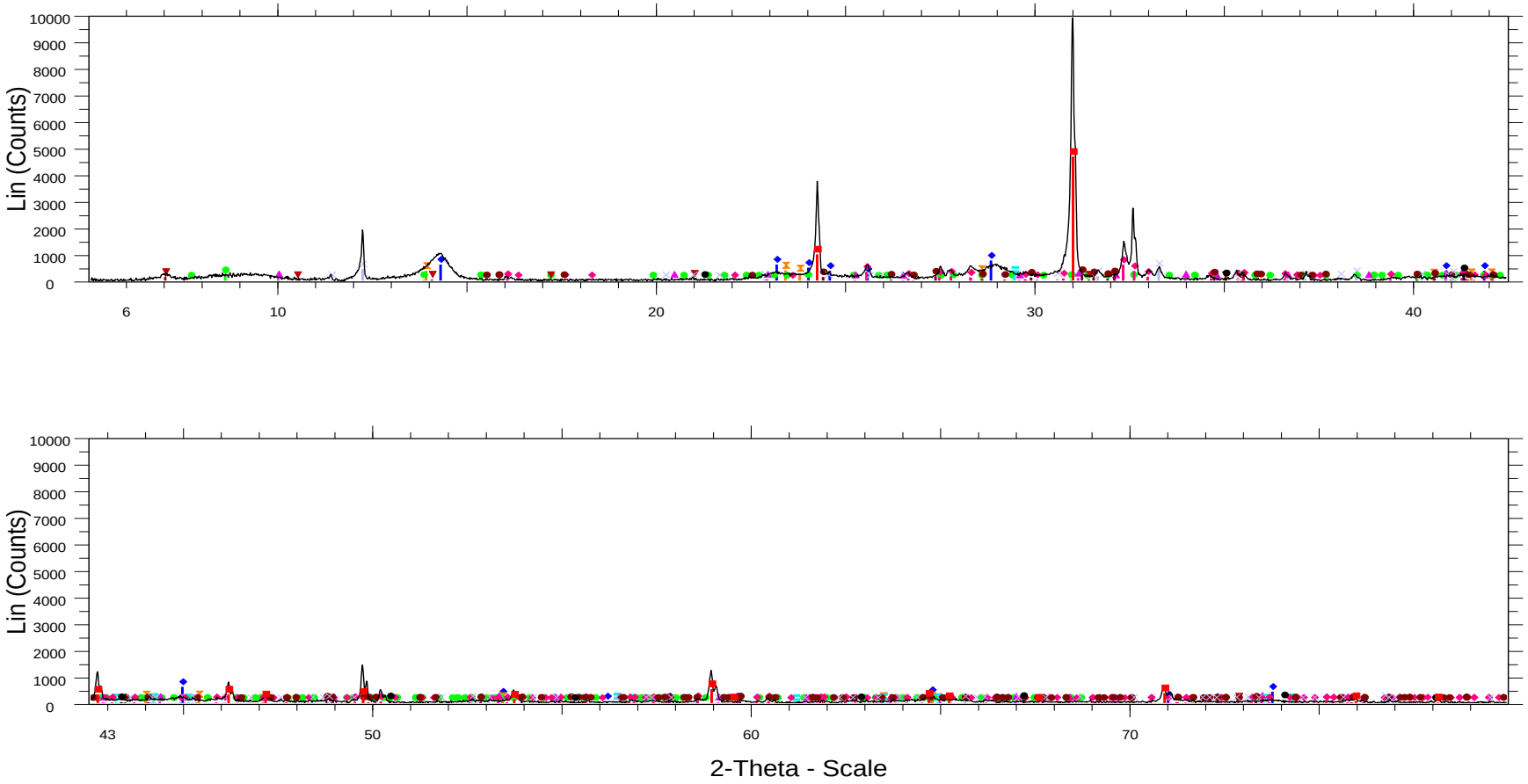
SGWC-18B (28-30)



SGWC-18B (37-39)



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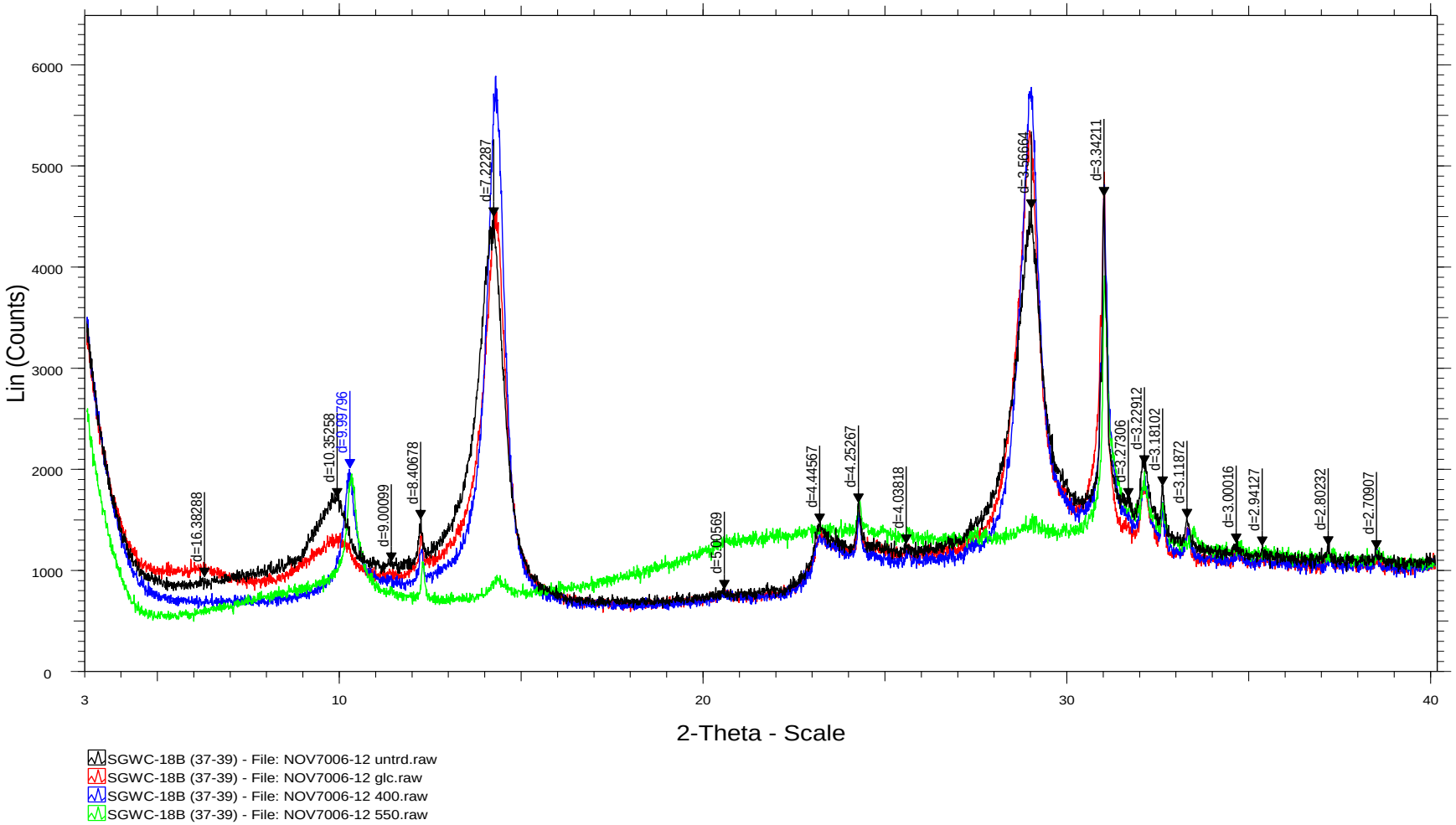
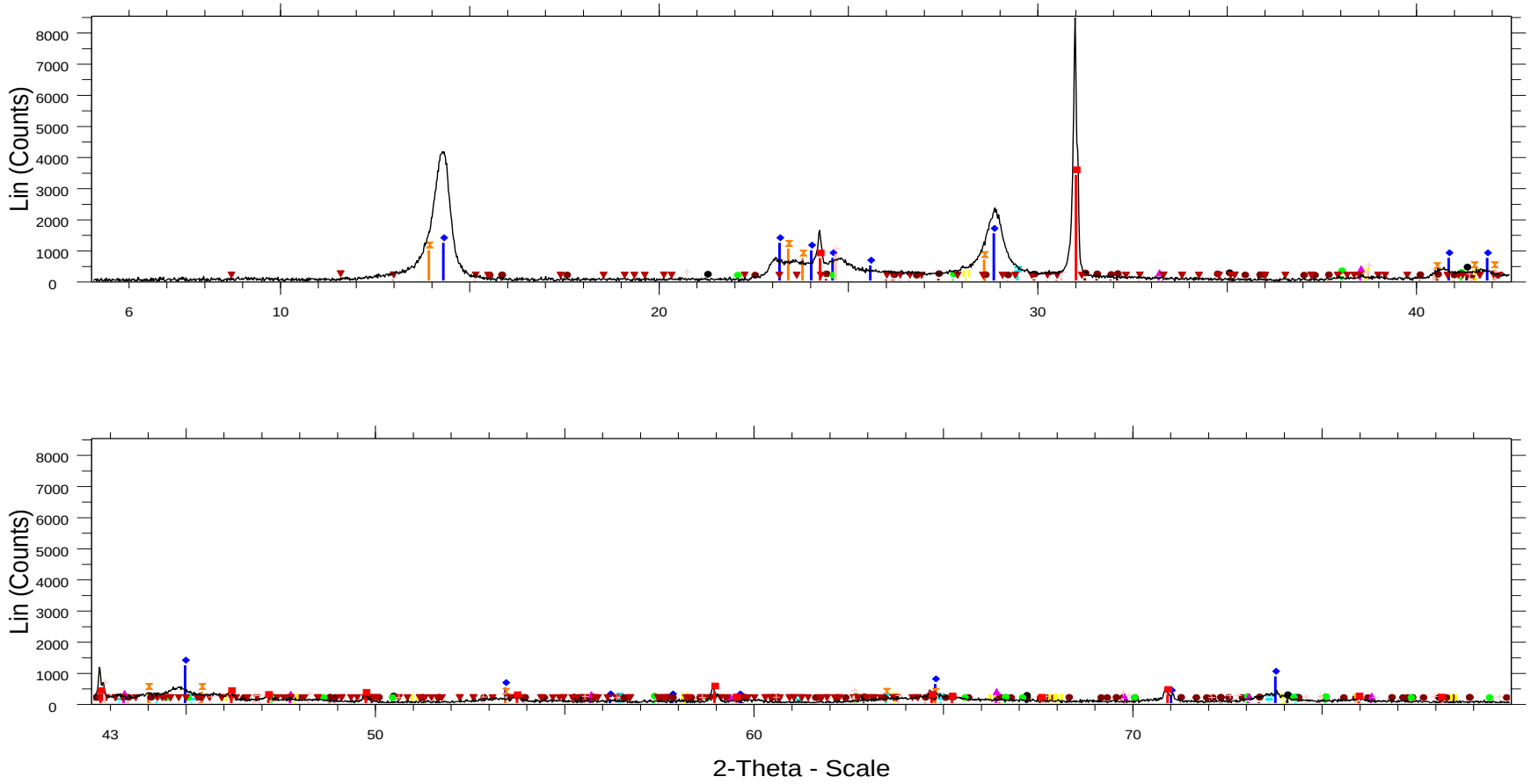
SGWC-18B (37-39)



SGWC-18C (32-34)



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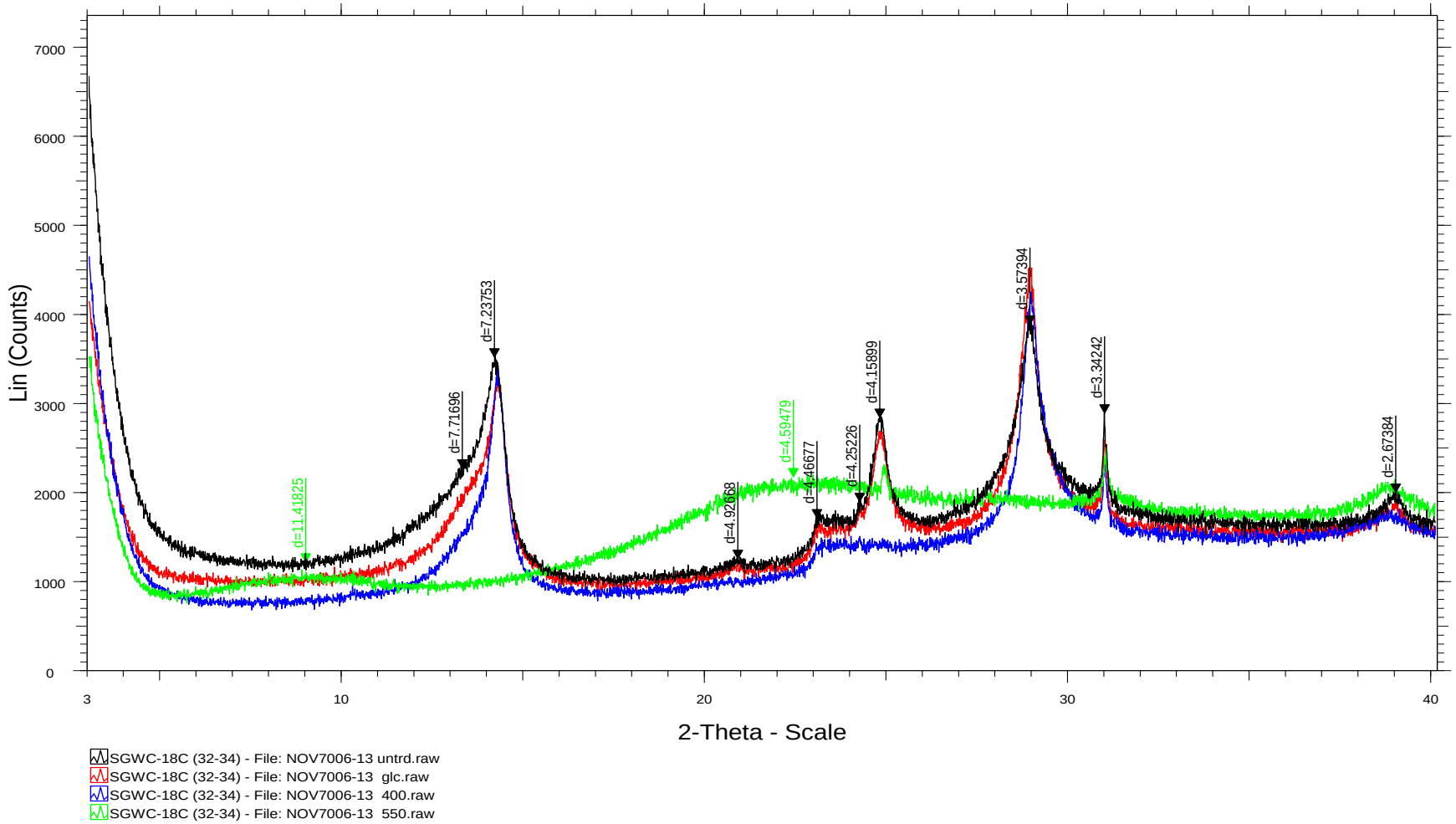
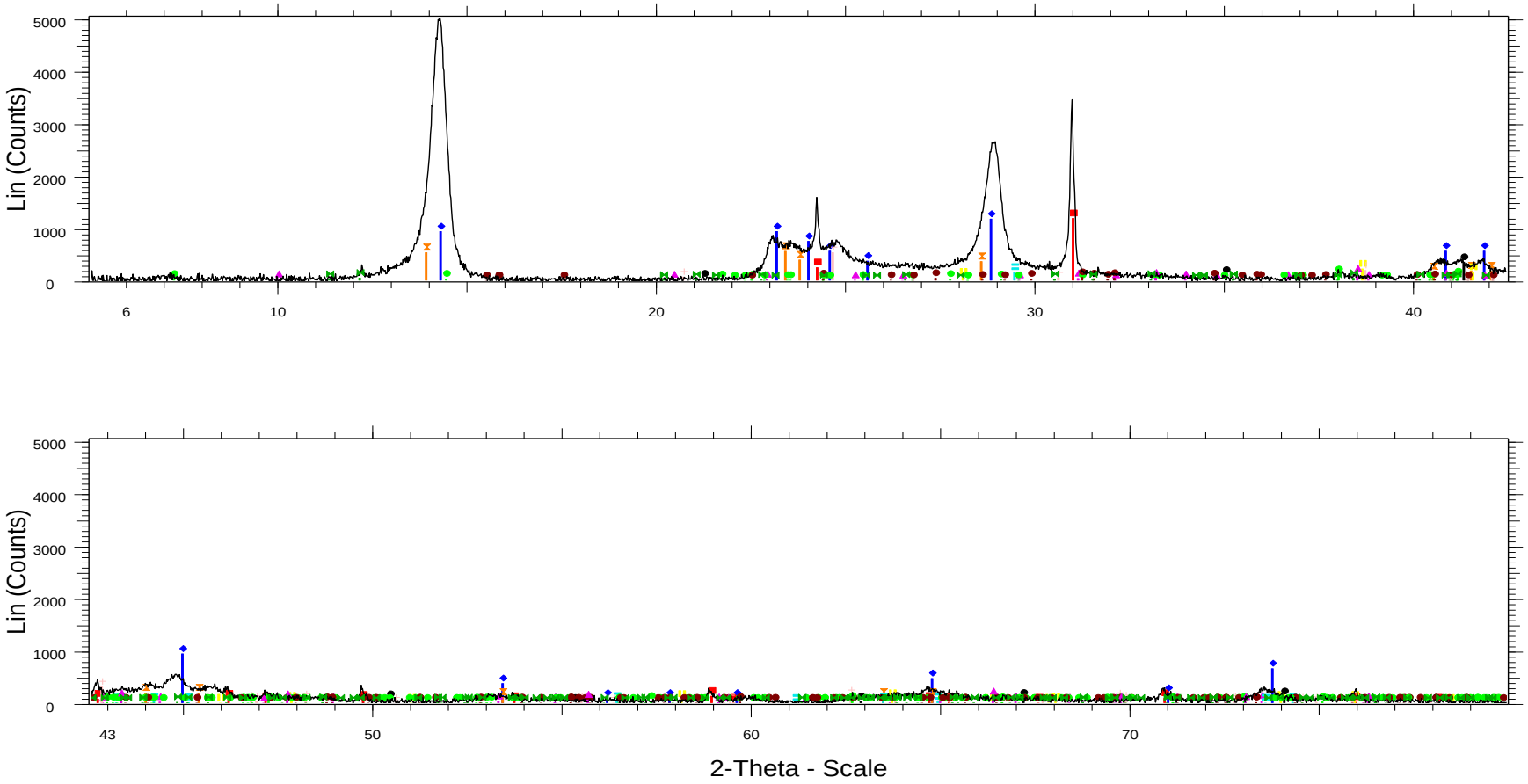
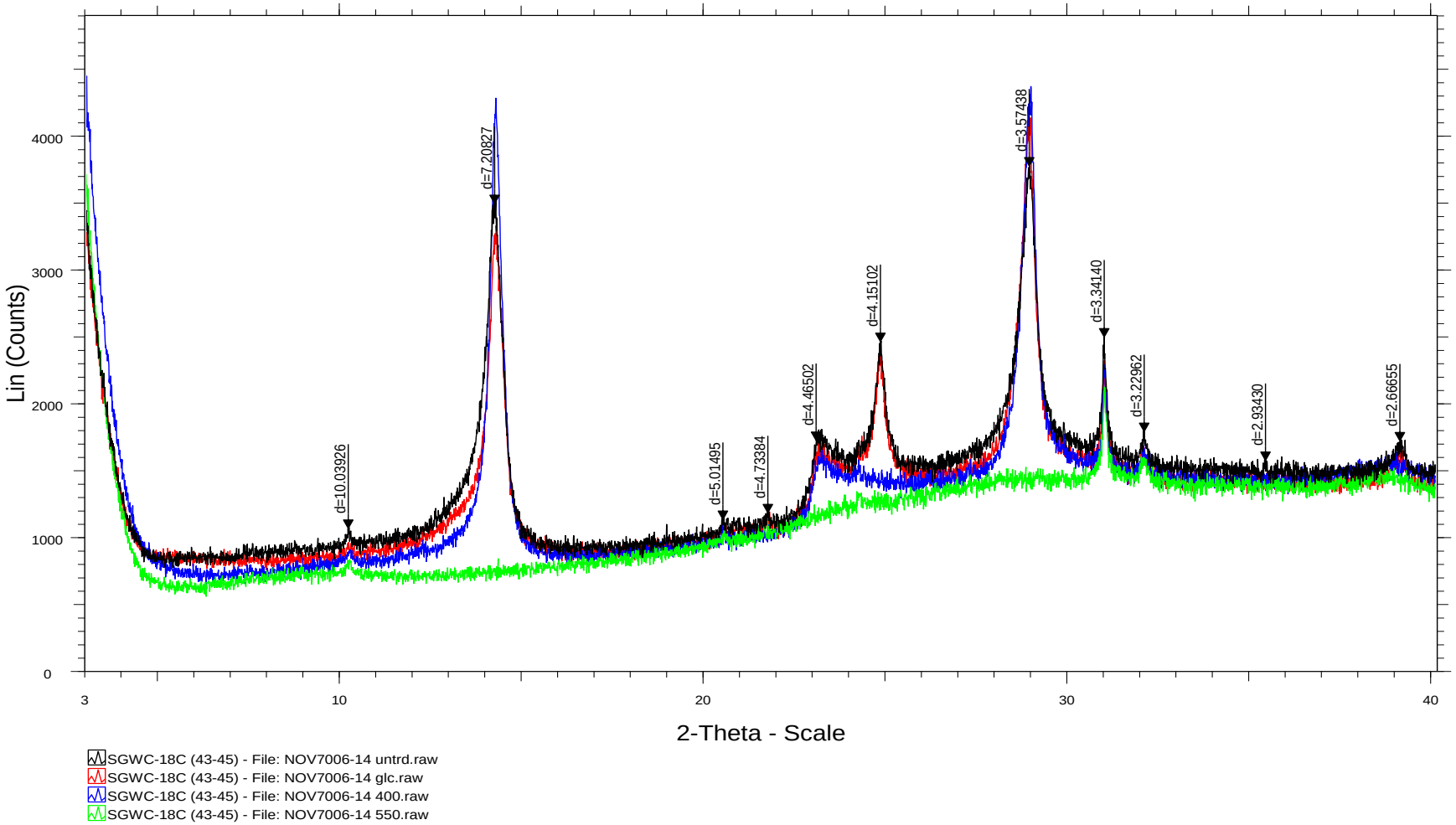
SGWC-18C (32-34)



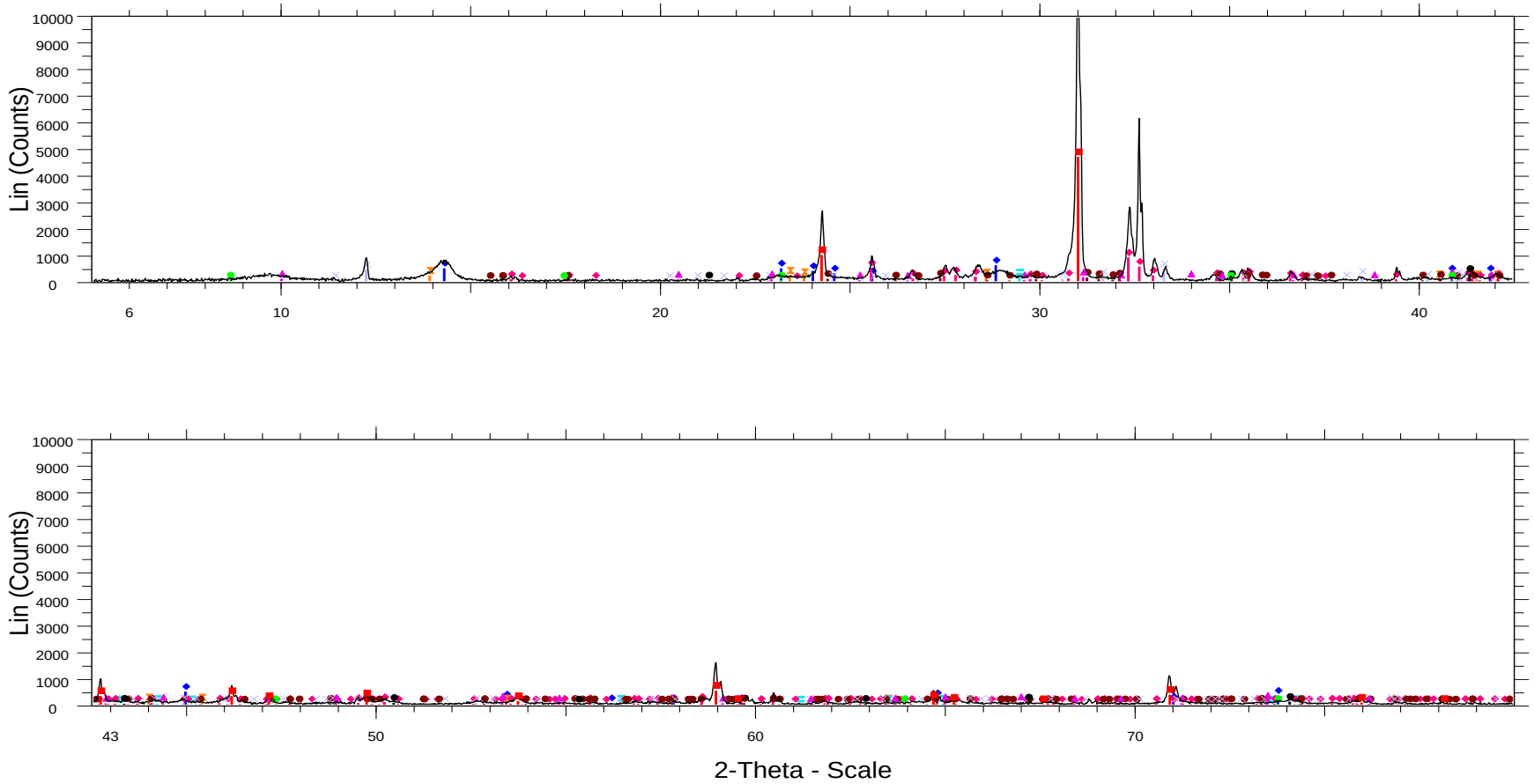
SGWC-18C (43-45)



SGWC-18C (43-45)



SGWC-18C (55-57)



SGWC-18C (55-57) - File: MI7006-NOV22_15.raw
01-079-1910 (C) - Quartz - SiO2
00-001-0527 (D) - Kaolinite - Al2Si2O5(OH)4
00-013-0375 (D) - Halloysite - Al2Si2O5(OH)4
01-078-2486 (C) - Anatase, syn - TiO2
01-076-0926 (C) - Albite calcian low - (Na0.75Ca0.25)(Al1.26Si2.74O8)
01-086-0438 (C) - Orthoclase - K(AlSi3O8)
00-045-1371 (I) - Magnesiohornblende, ferroan - Ca2(MgFe)4Al(Si7Al)O22(OH,F)2
01-087-2334 (C) - Magnetite - synthetic - Fe3O4
00-015-0603 (D) - Illite - (K,H2O)(AlFe)2AlSi3O10(OH)2·H2O
00-002-0037 (D) - Montmorillonite - (Na,Ca)0.3(Al,Mg)2Si2O10(OH)2·4H2O

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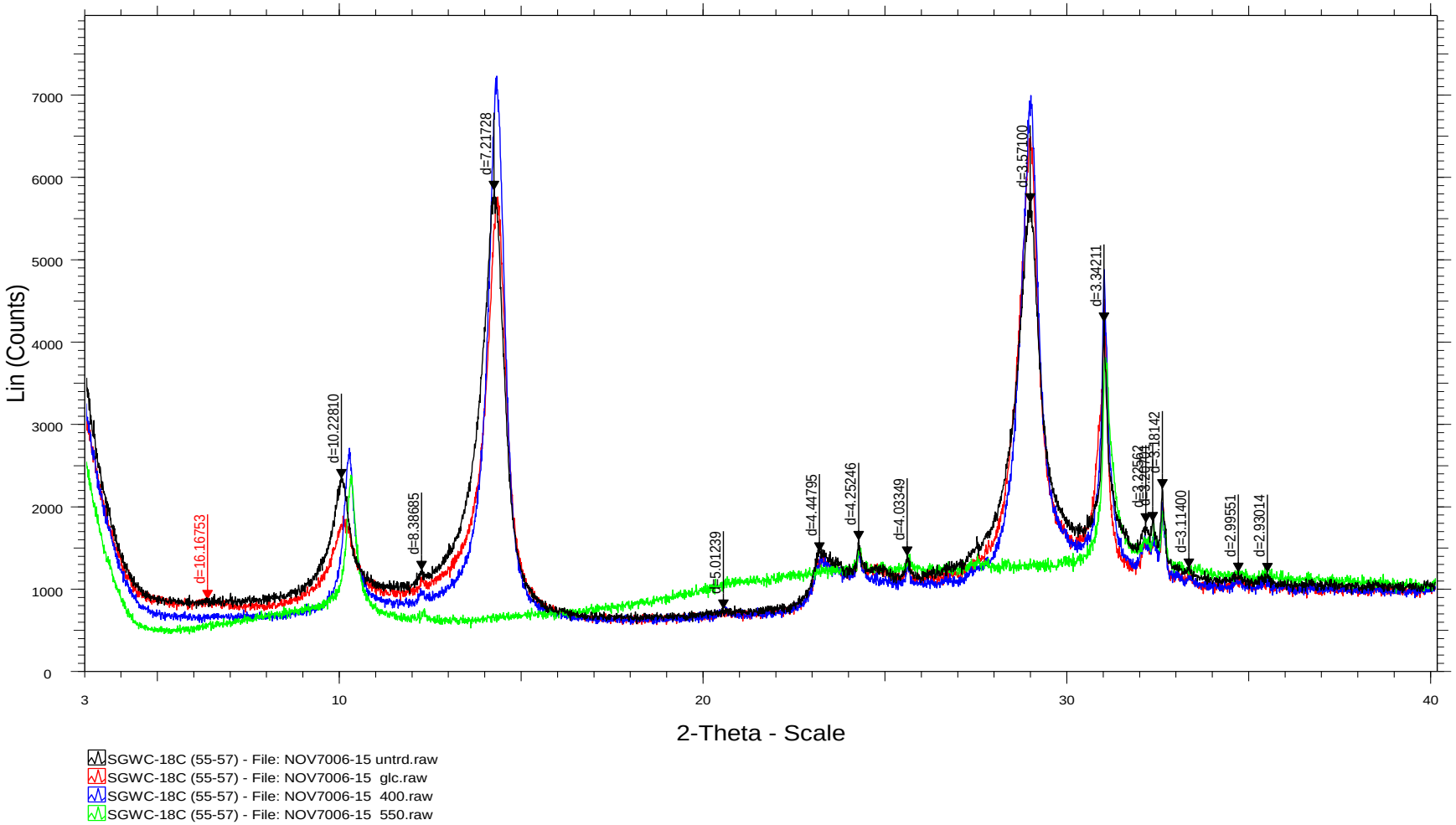
SGWC-18C (55-57)



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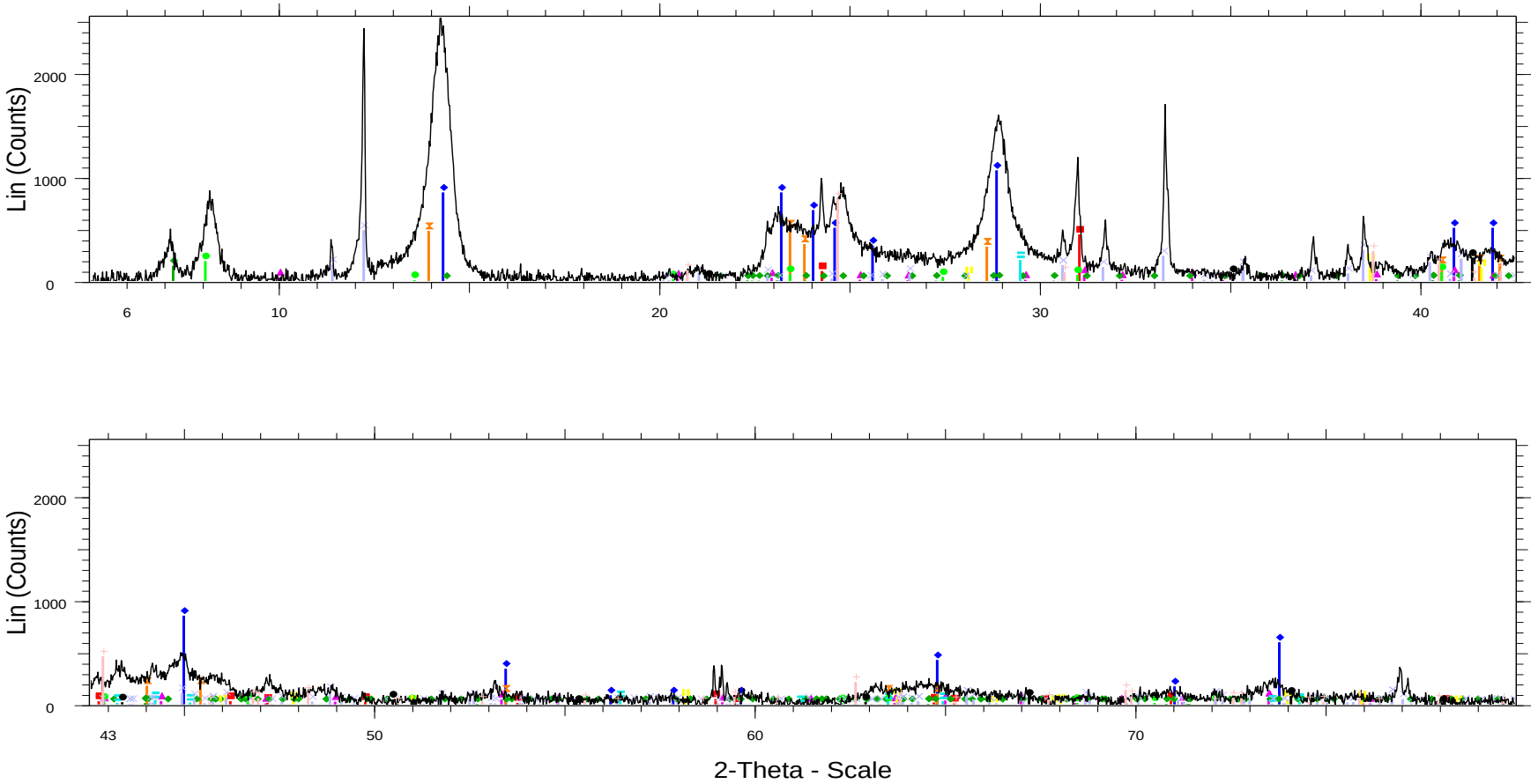
SGWC-18D (28-30)



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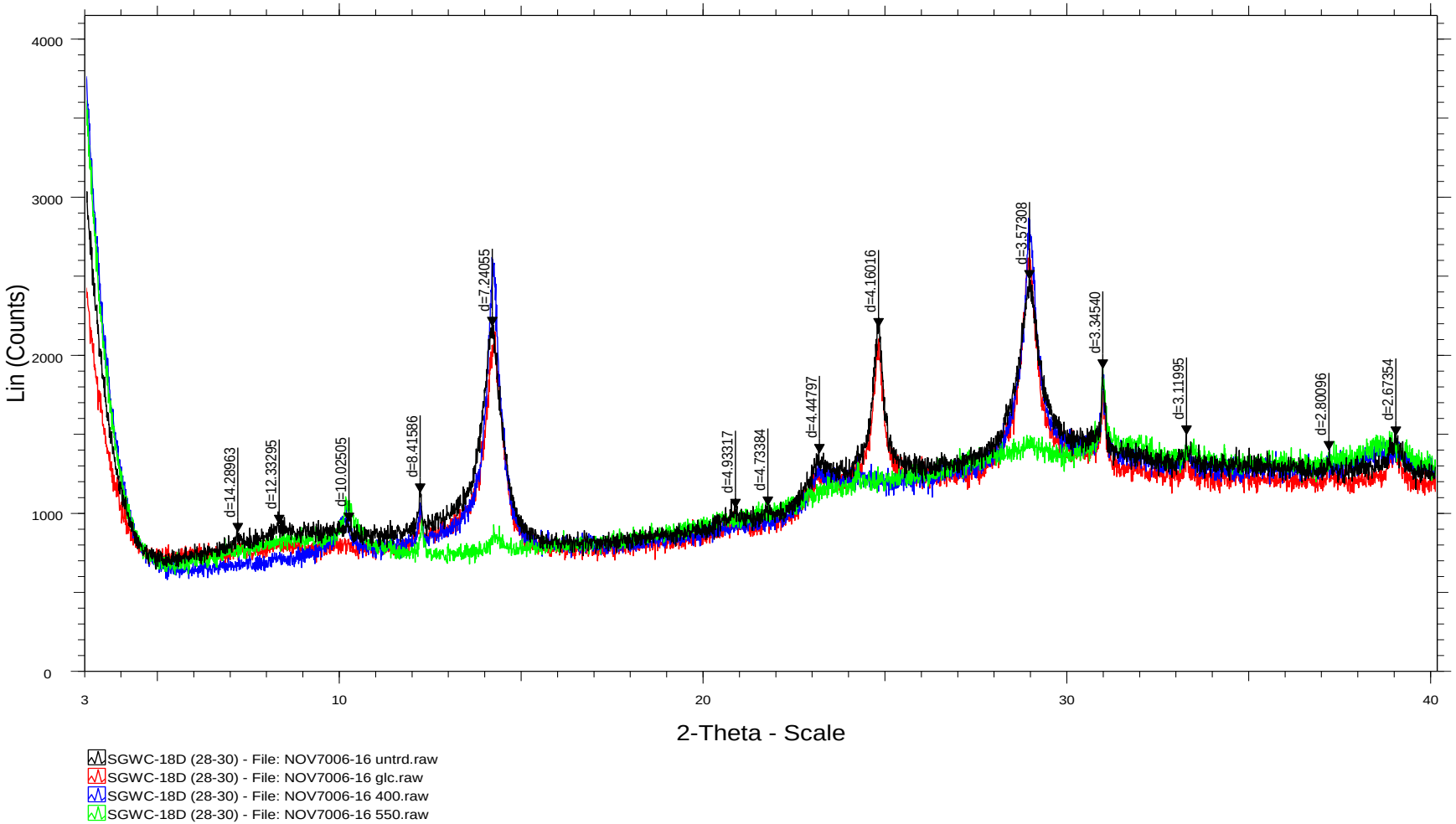
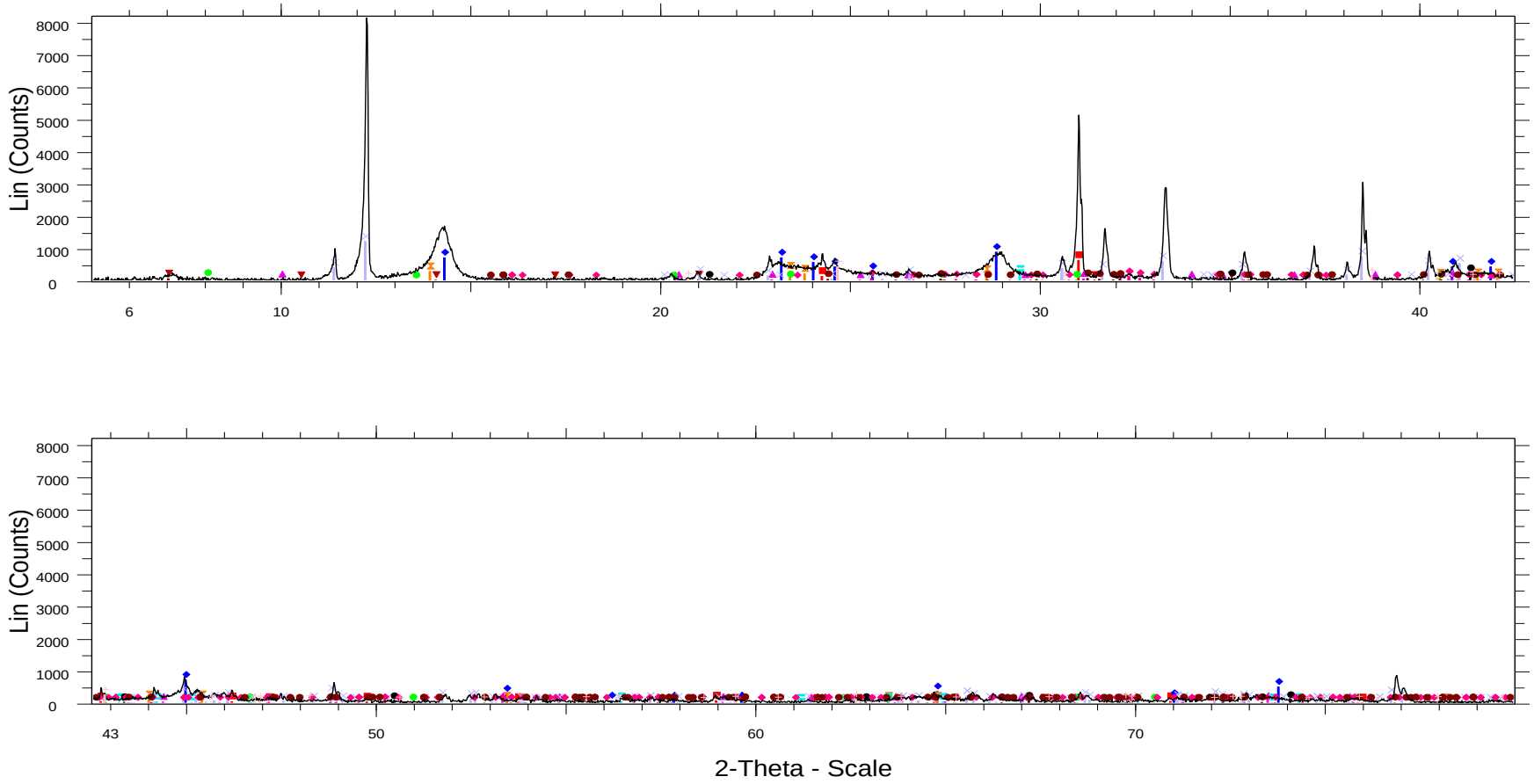
SGWC-18D (28-30)



SGWC-18D (42.5-44.5)



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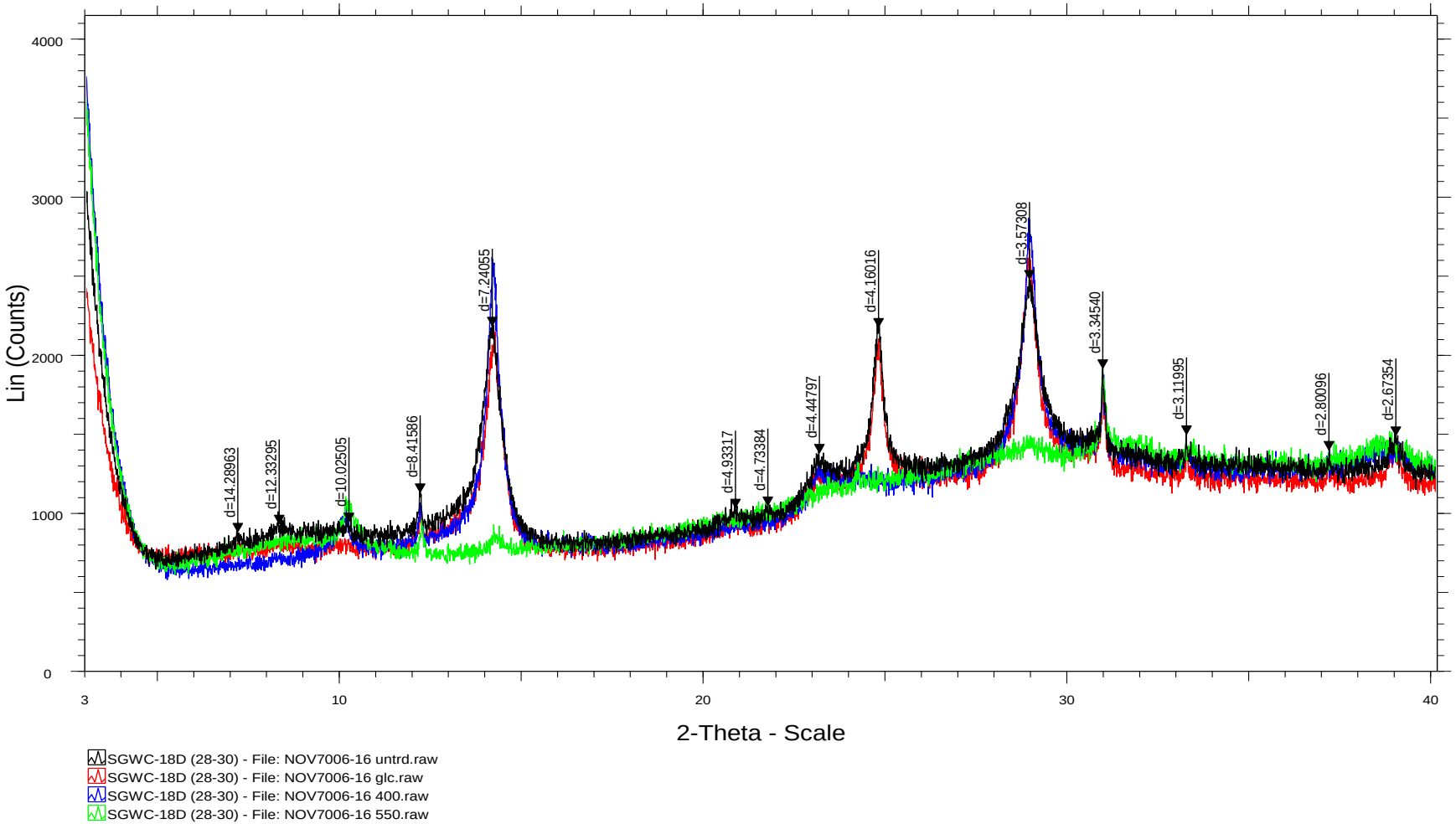
SGWC-18D (28-30)



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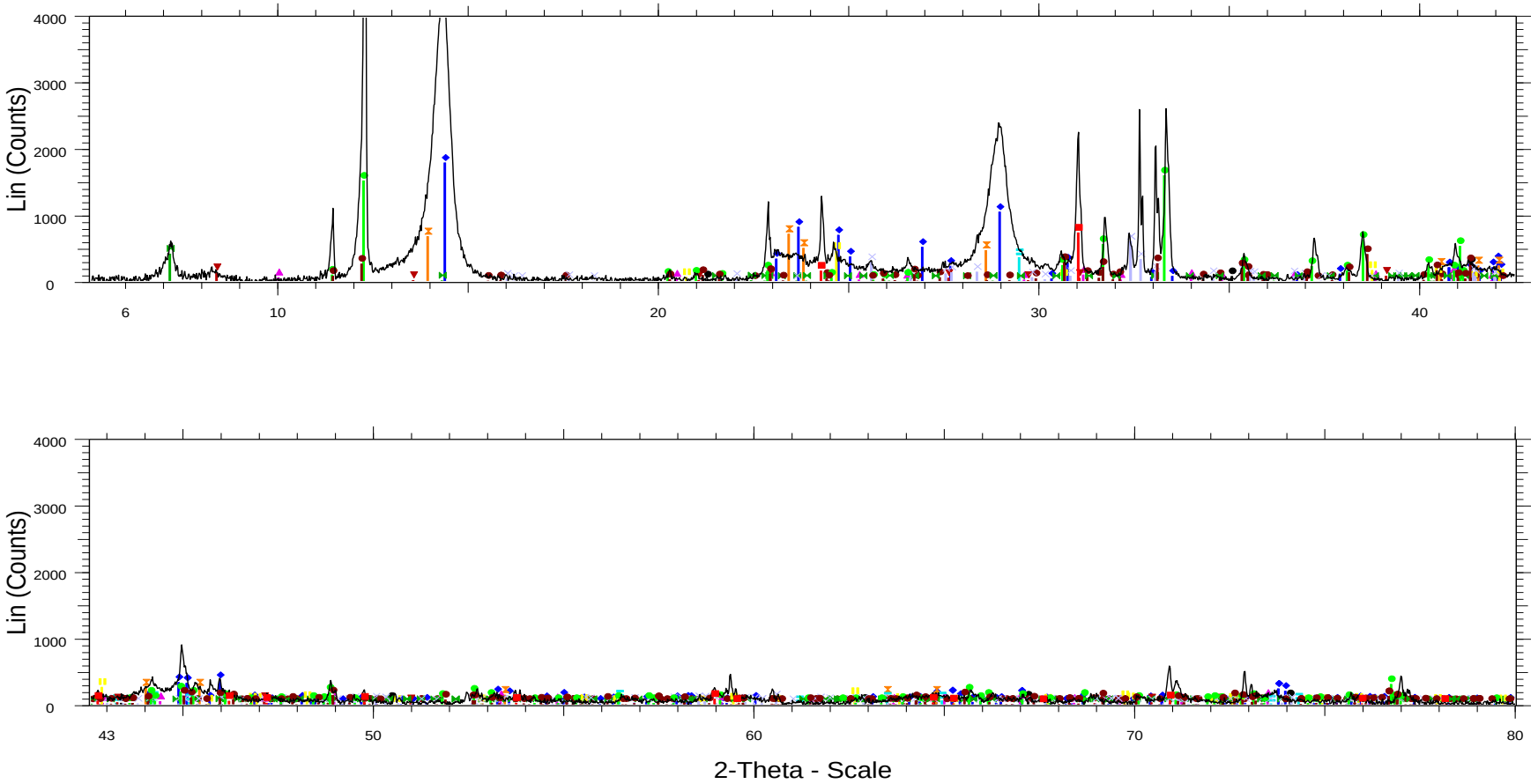
SGWC-18D (47.5-49.5)



SGWC-18D (47.5-49.5) - File: MI7006-NOV22_18.raw
01-079-1910 (C) - Quartz - SiO2
01-080-0885 (C) - Kaolinite - Al2(Si2O5)(OH)4
00-013-0375 (D) - Halloysite - Al2Si2O5(OH)4
00-015-0603 (D) - Illite - (K,H2O)(AlFe)2AlSi3O10(OH)2·H2O
01-078-2486 (C) - Anatase, syn - TiO2
01-087-2334 (C) - Magnetite - synthetic - Fe3O4
01-086-0438 (C) - Orthoclase - K(AlSi3O8)
00-014-0001 (D) - Sepiolite - Mg2Si3O8·2H2O
01-074-1732 (C) - Vermiculite - Mg3Si4O10(OH)2
01-081-0463 (C) - Goethite, syn - FeO(OH)
01-085-1415 (C) - Anorthite (Na-exchanged) - (Na.45Ca.55)(Al1.55Si2.45O8)
00-045-1371 (I) - Magnesiohornblende, ferroan - Ca2(Mg1.5Fe3.5)(Si7Al)O22(OH,F)2
01-085-1760 (C) - Richterite - Na2Ca(Mg,Fe)5Si8O22(OH)2

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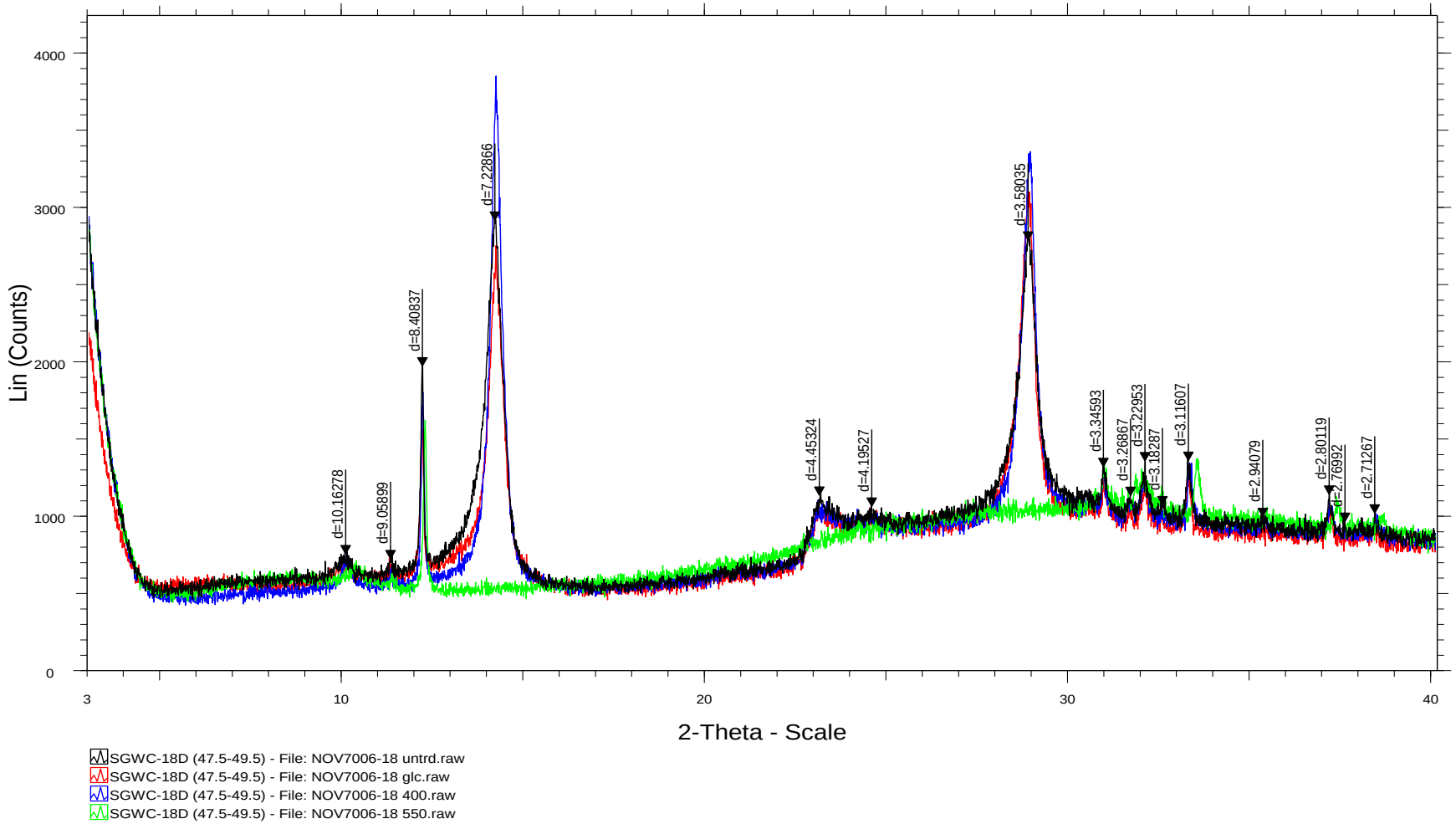
SGWC-18D (47.5-49.5)



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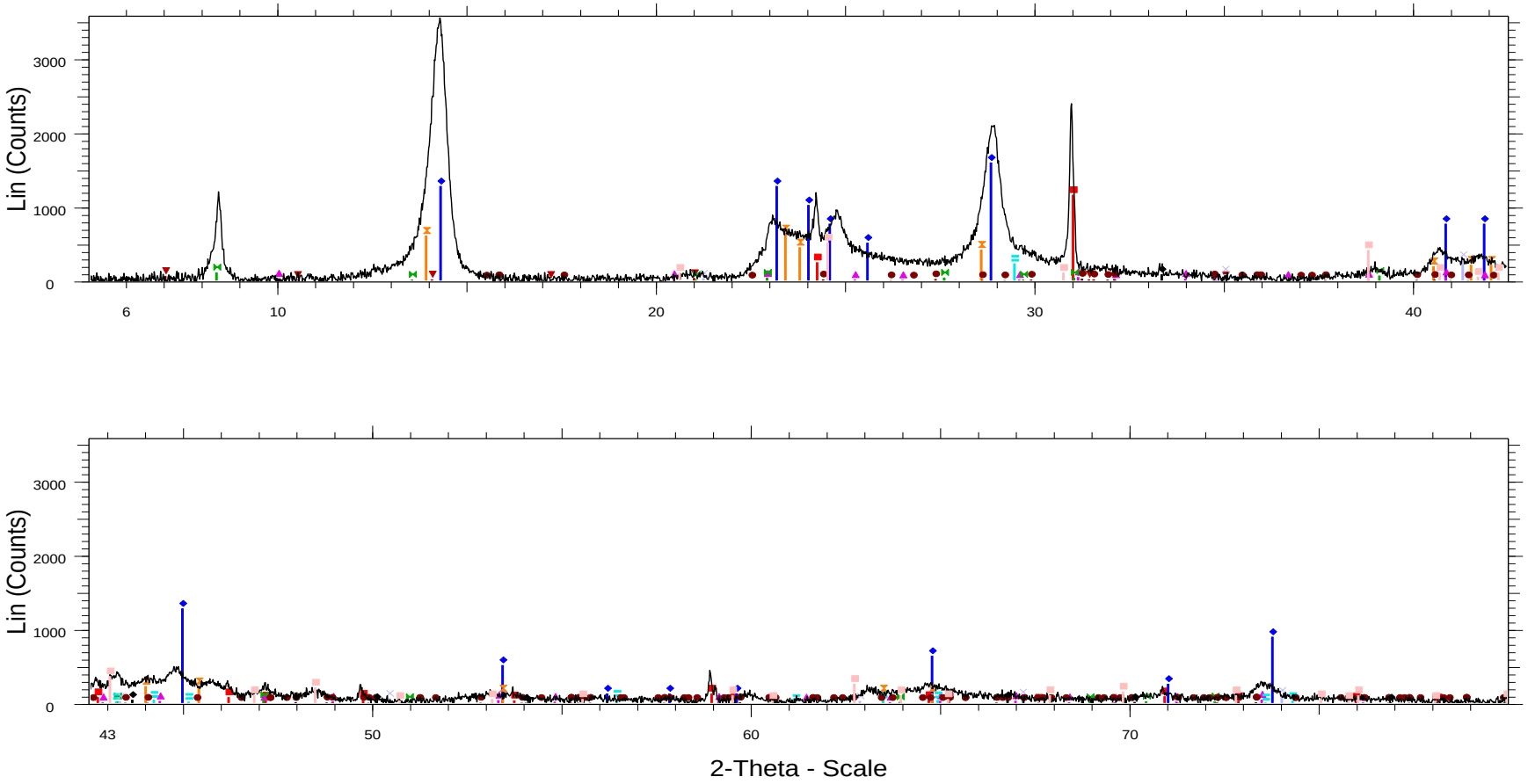
SGWC-15A (31.3-33.3)



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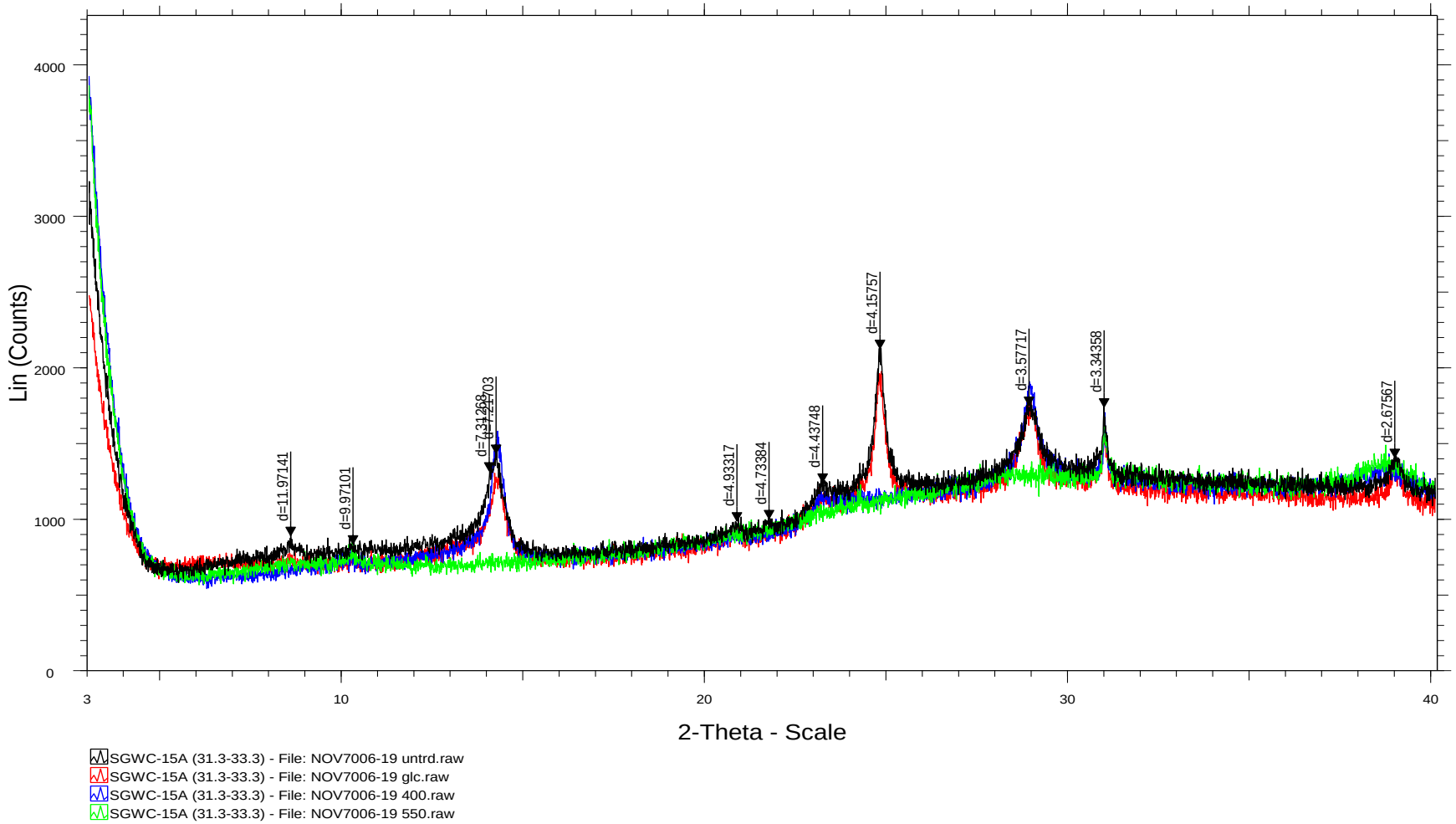
SGWC-15A (31.3-33.3)



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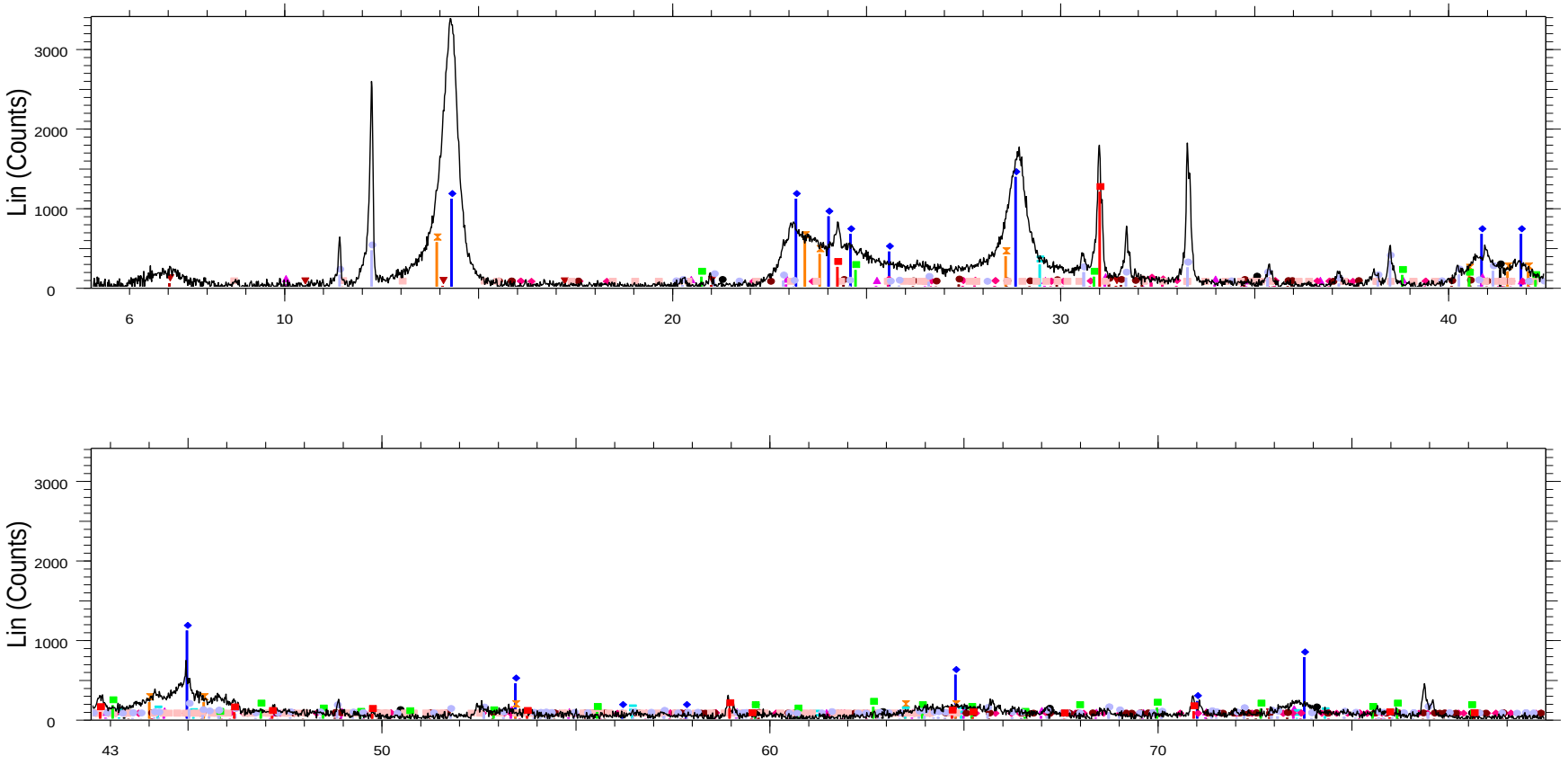
SGWC-15A (42-44)



SGWC-15A (42-44) - File: MI7006-NOV22_20.raw
01-079-1910 (C) - Quartz - SiO2
00-001-0527 (D) - Kaolinite - Al2Si2O5(OH)4
00-013-0375 (D) - Halloysite - Al2Si2O5(OH)4
00-015-0603 (D) - Illite - (K,H2O)(AlFe)2AlSi3O10(OH)2·H2O
00-007-0051 (D) - Montmorillonite - (Na,Ca)0.3(Al,Mg)2Si2O10(OH)2·4H2O
01-078-2486 (C) - Anatase, syn - TiO2
01-076-0926 (C) - Albite calcian low - (Na0.75Ca0.25)(Al1.26Si2.74O8)
01-086-0438 (C) - Orthoclase - K(AlSi3O8)
01-087-2334 (C) - Magnetite - synthetic - Fe3O4
01-076-0532 (C) - Heulandite-Ca - Ca3.1Na1.1K0.1Al7.6Si28.5O72(H2O)20.5
00-003-0249 (D) - Goethite, syn - alpha-Fe+3O(OH)
01-084-2123 (C) - Magnesiohornblende - Na.46Ca1.7Mg3.44Fe1.72Al1.08Si6.92O23(OH)

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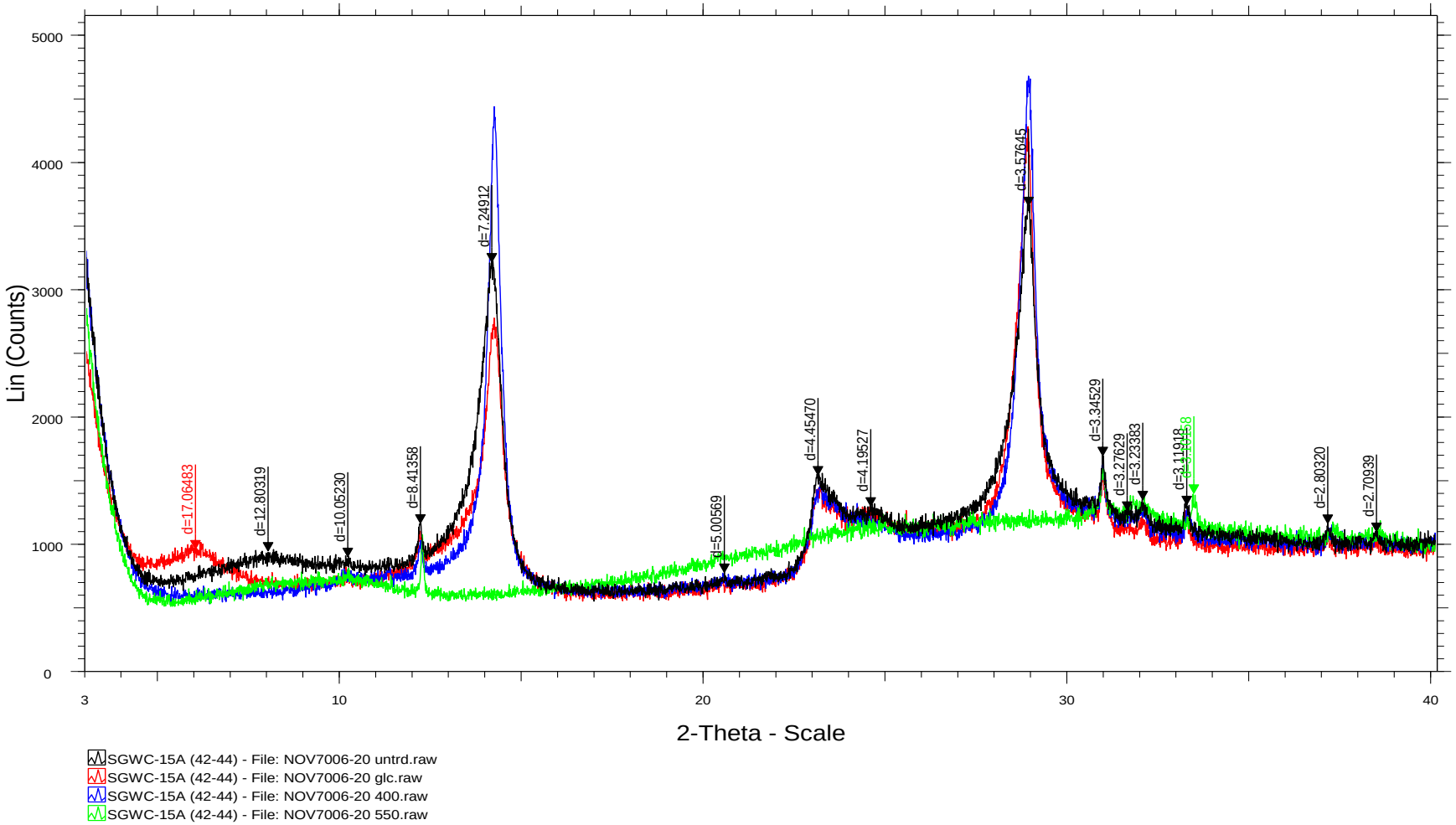
SGWC-15A (42-44)



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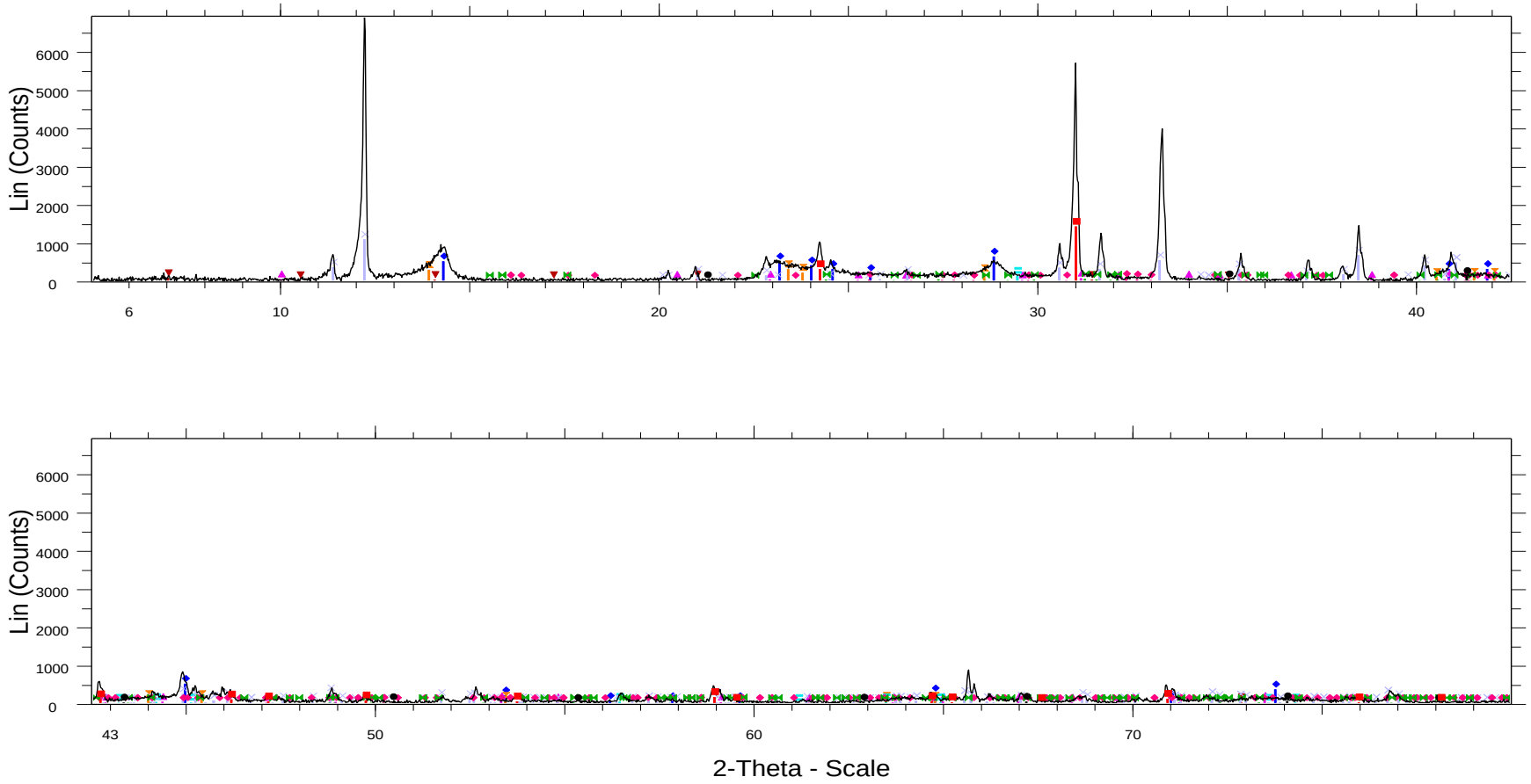
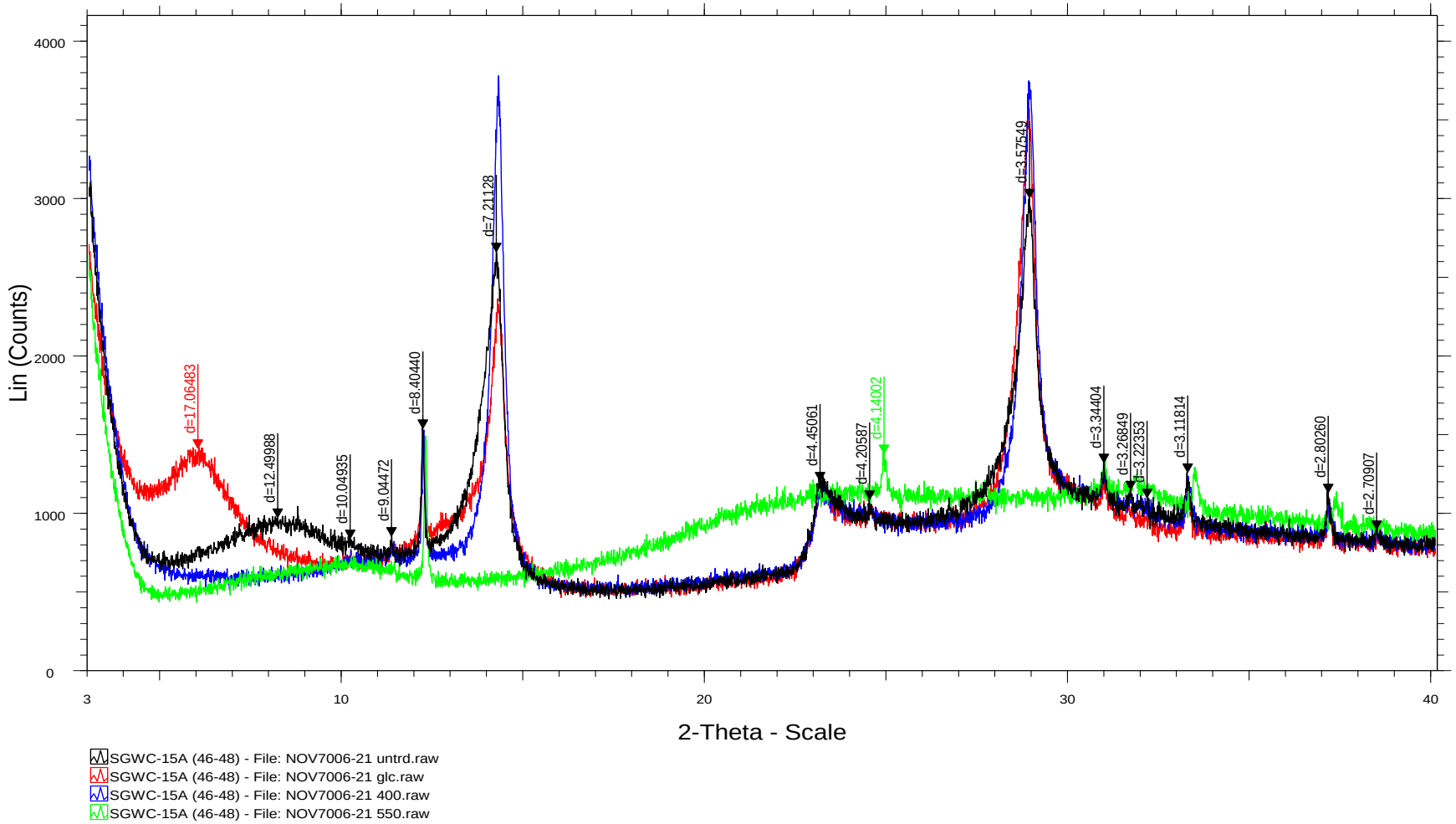
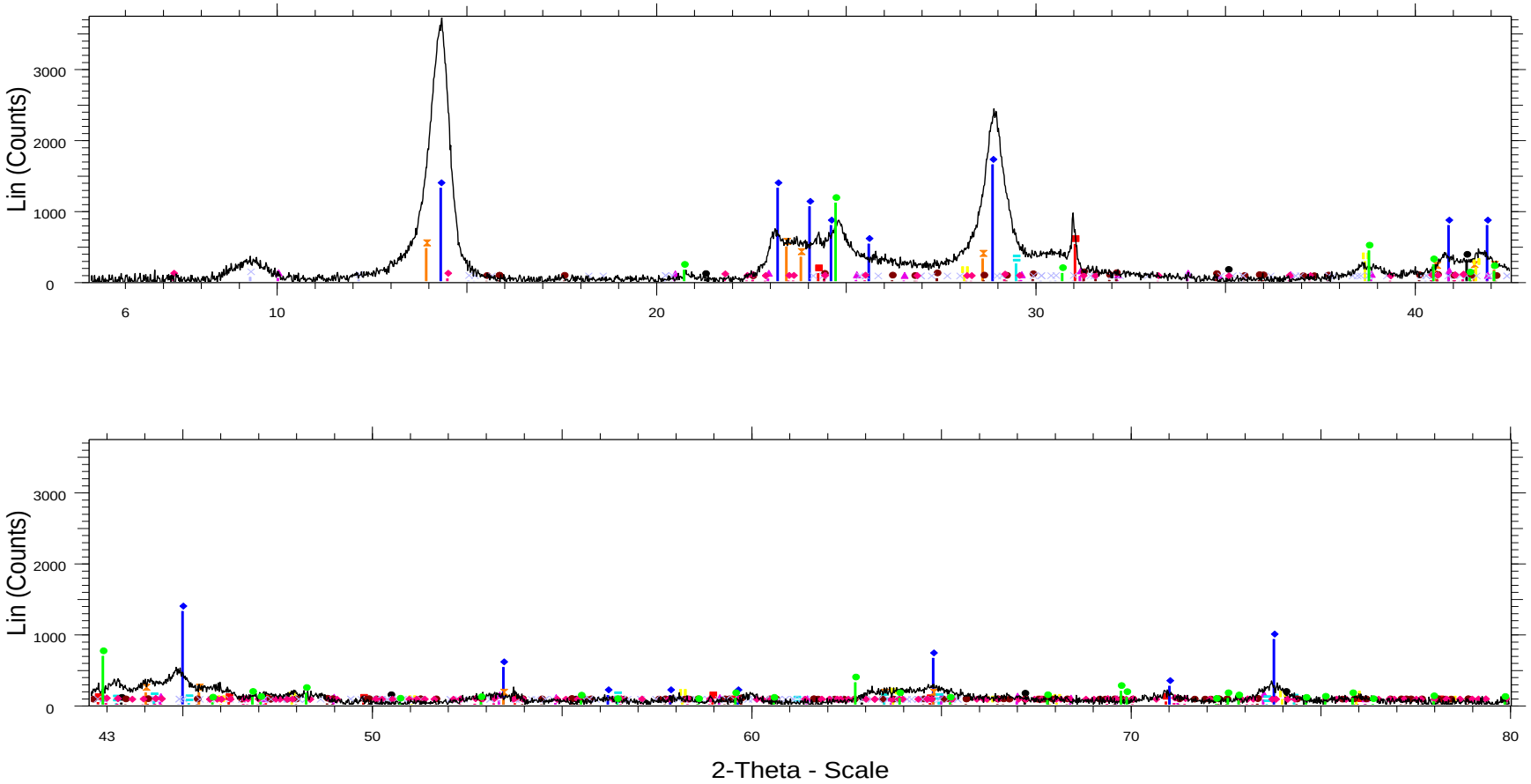
SGWC-15A (46-48)



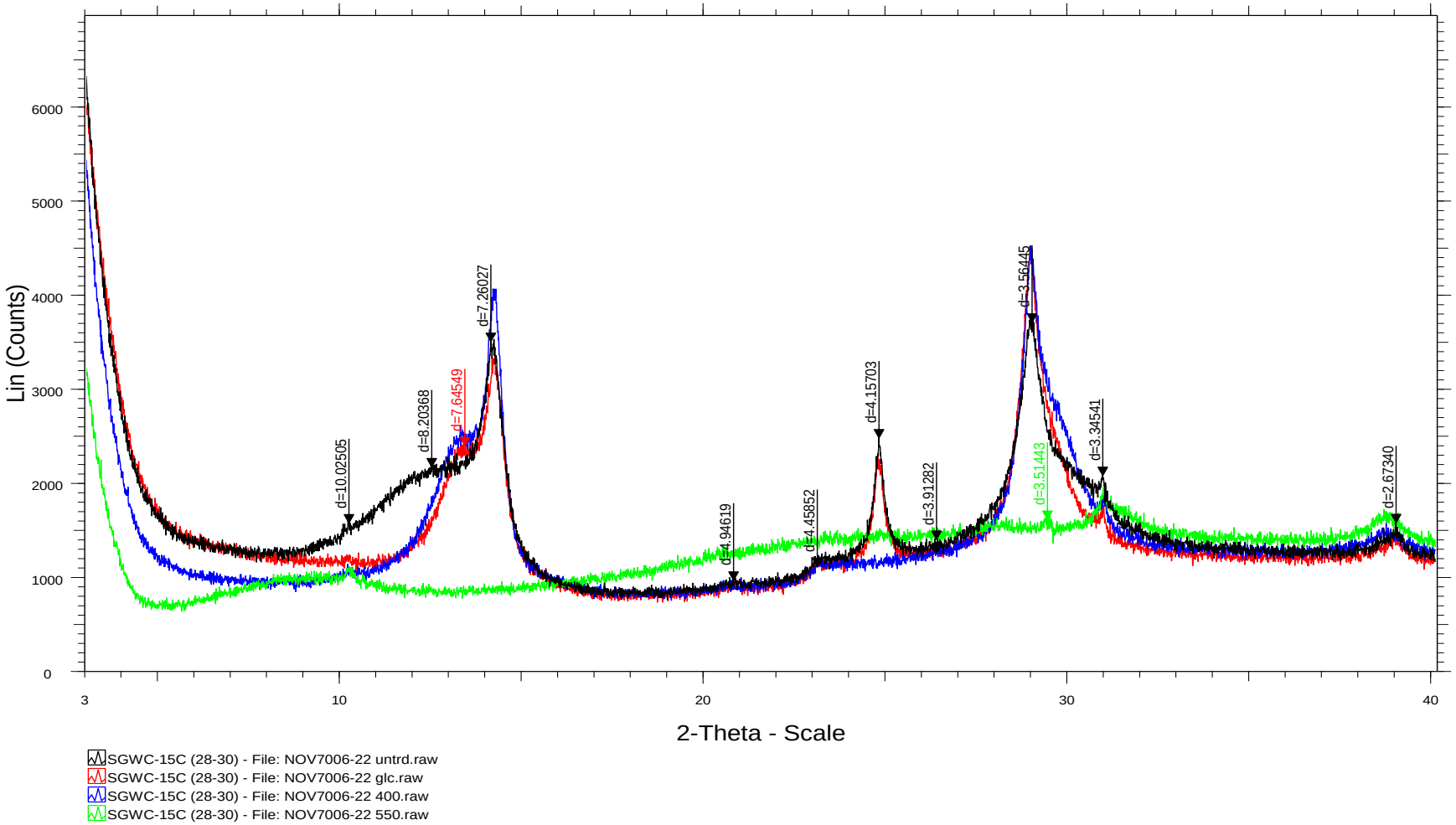
SGWC-15A (46-48)



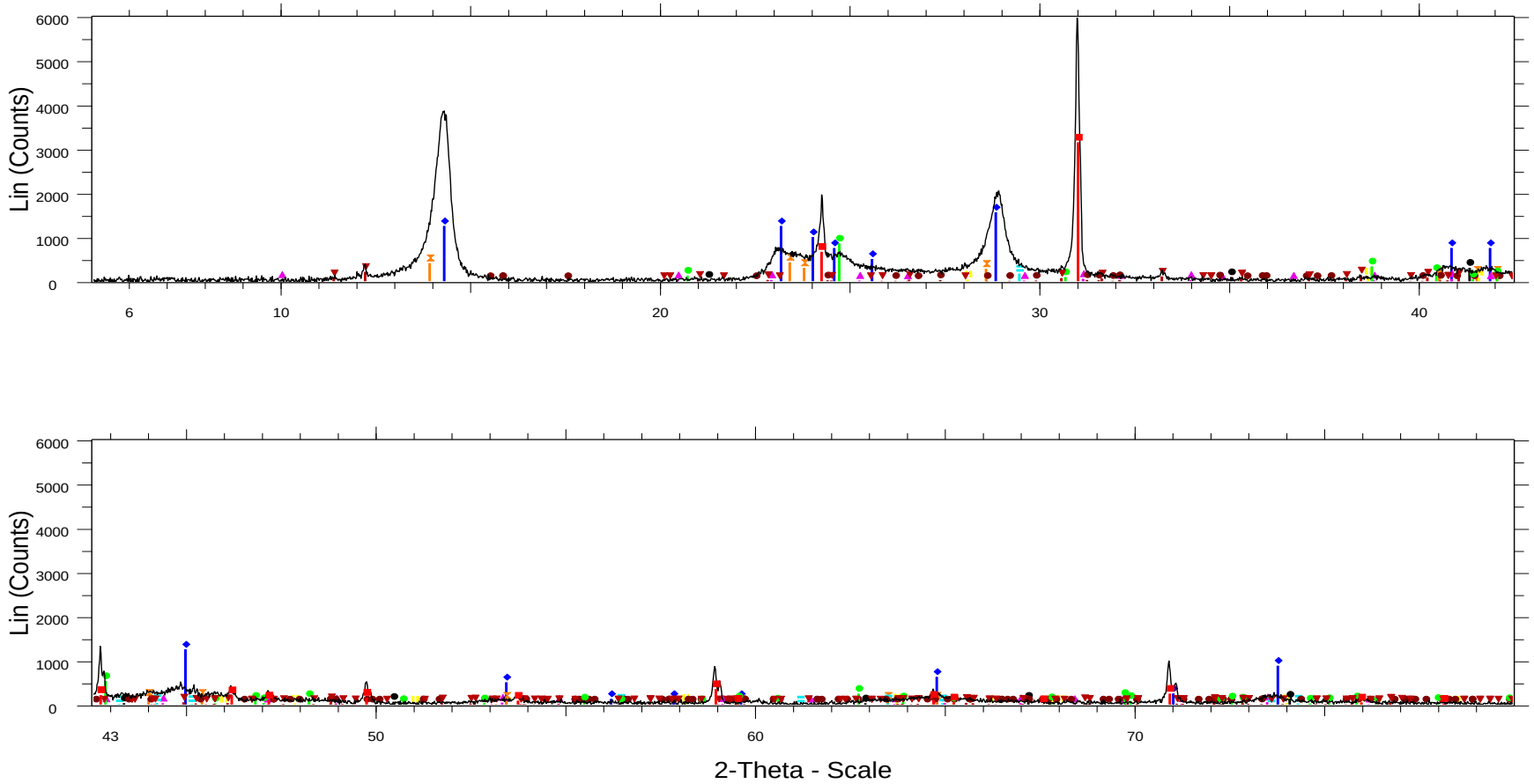
SGWC-15C (28-30)



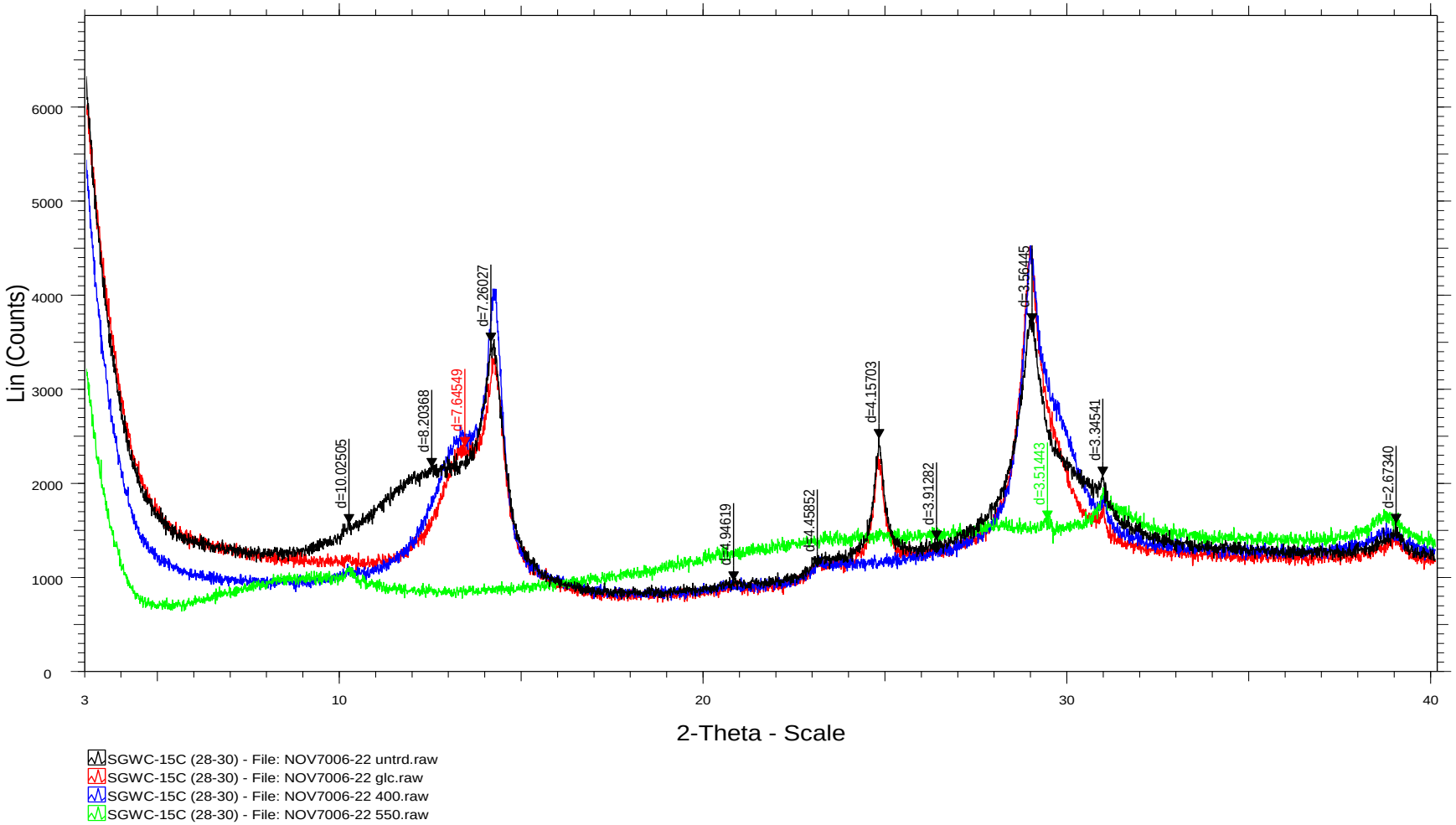
SGWC-15C (28-30)



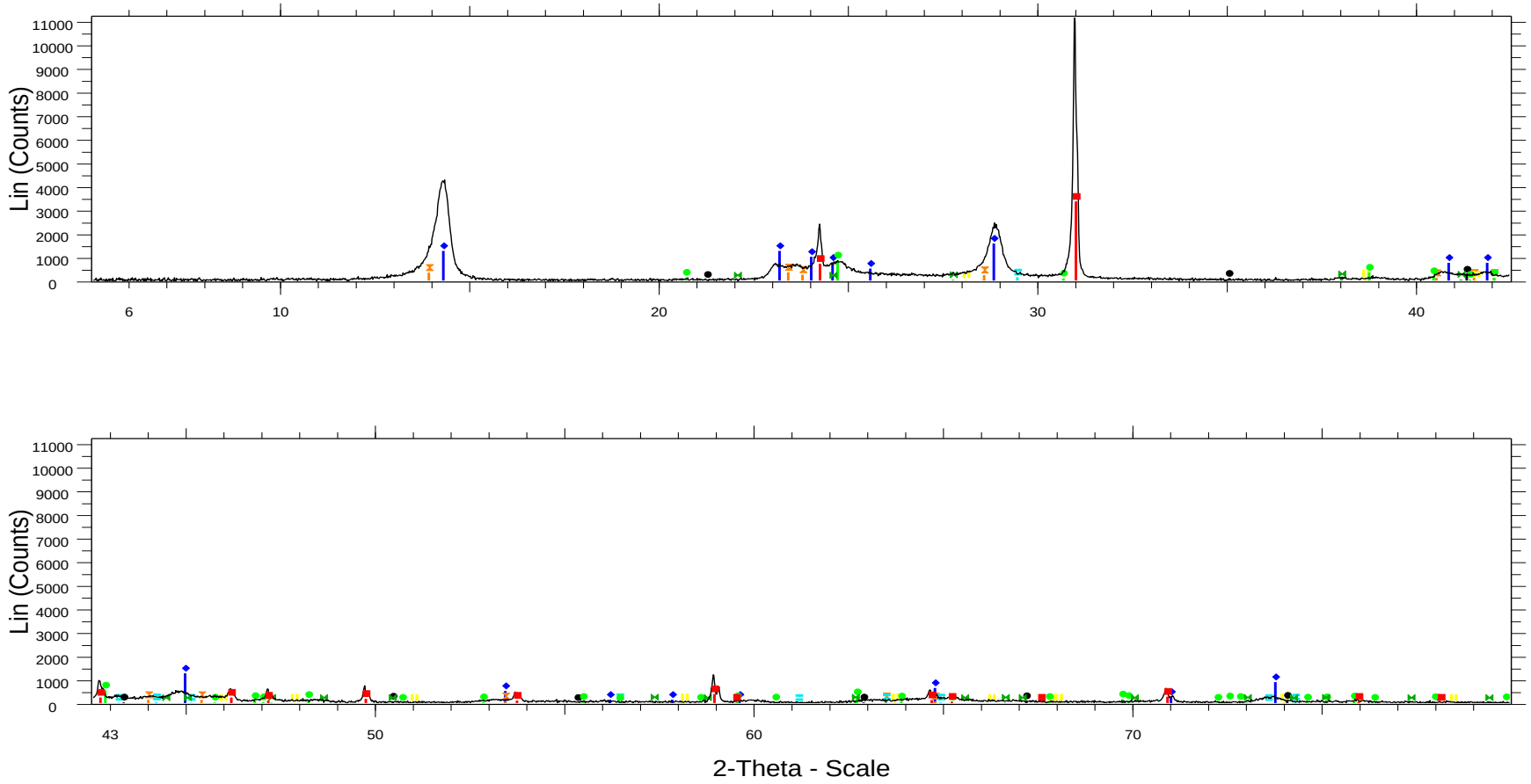
SGWC-15C (43-45)



SGWC-15C (28-30)



SGWC-15B (28-30)



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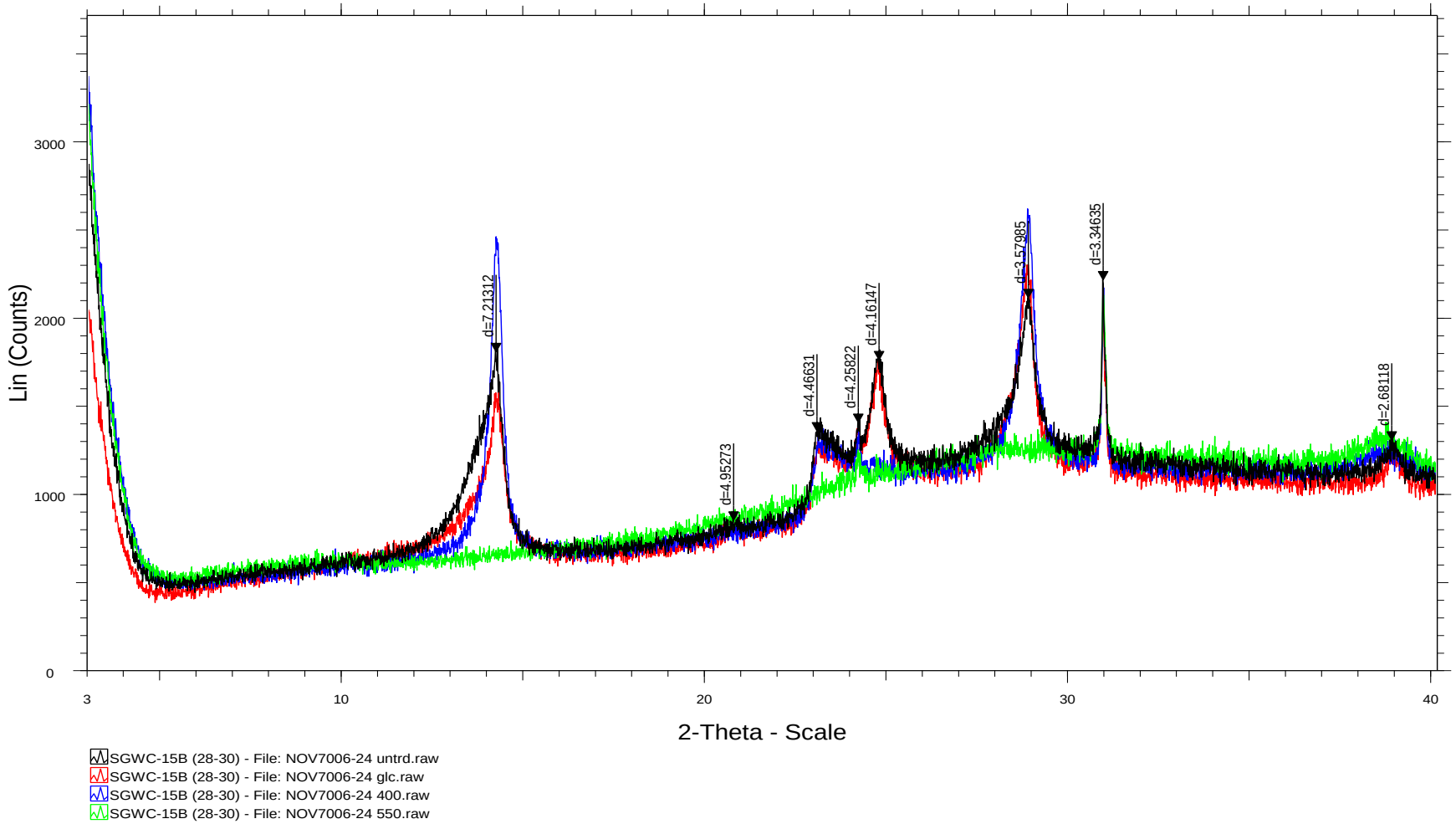
SGWC-15B (28-30)



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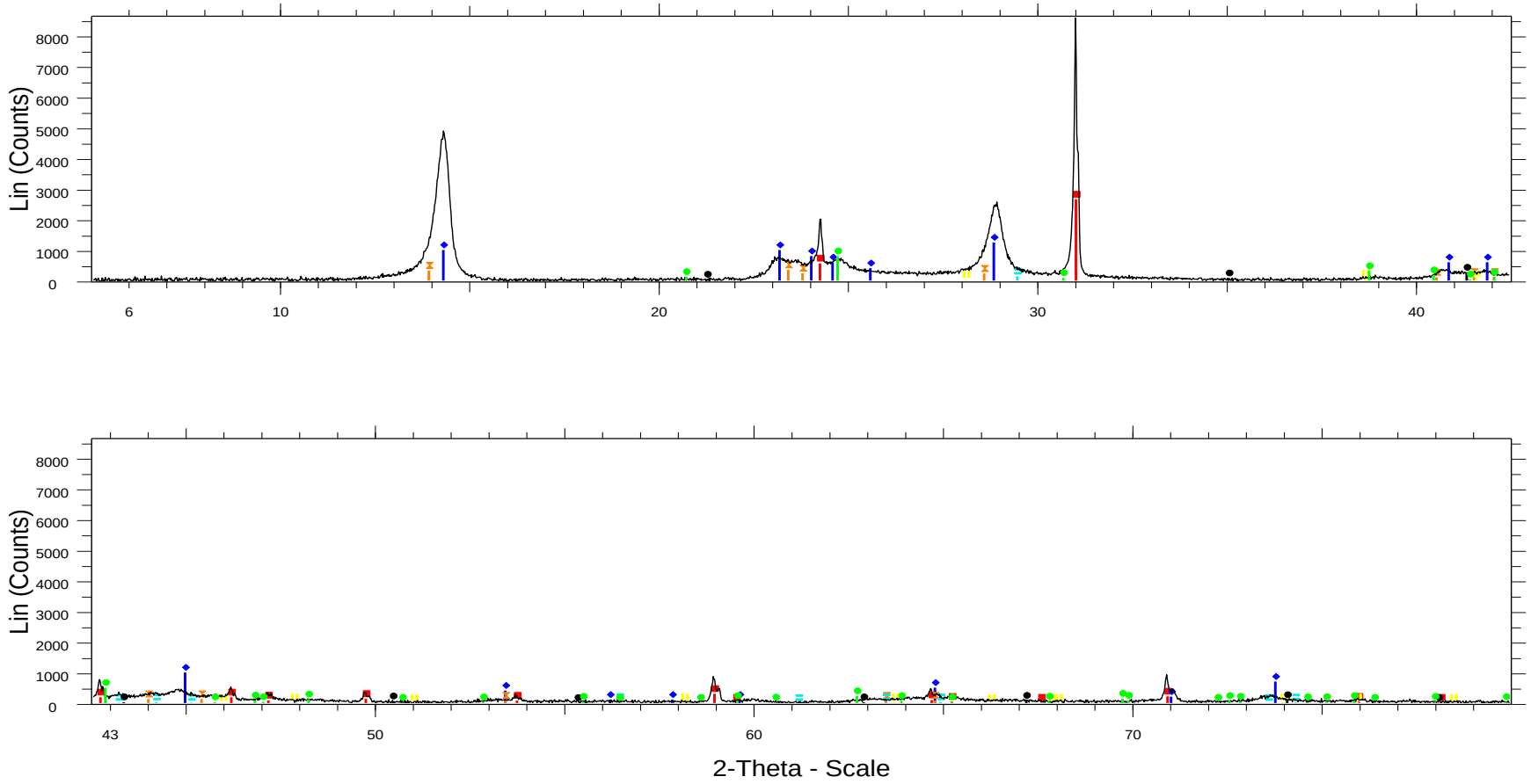
02/09/2023

SGWC-15B (42-44)



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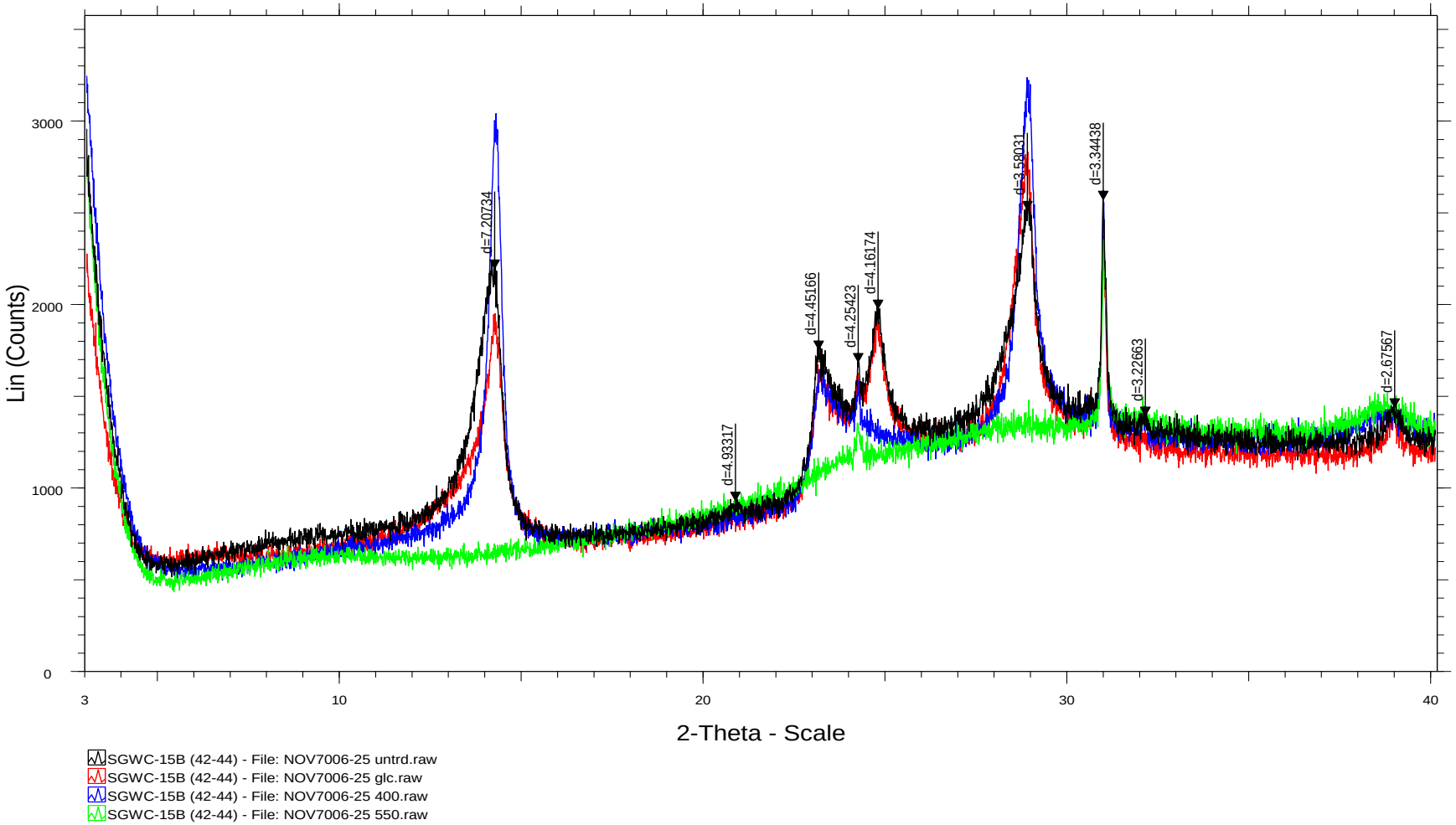
02/09/2023

SGWC-15B (42-44)



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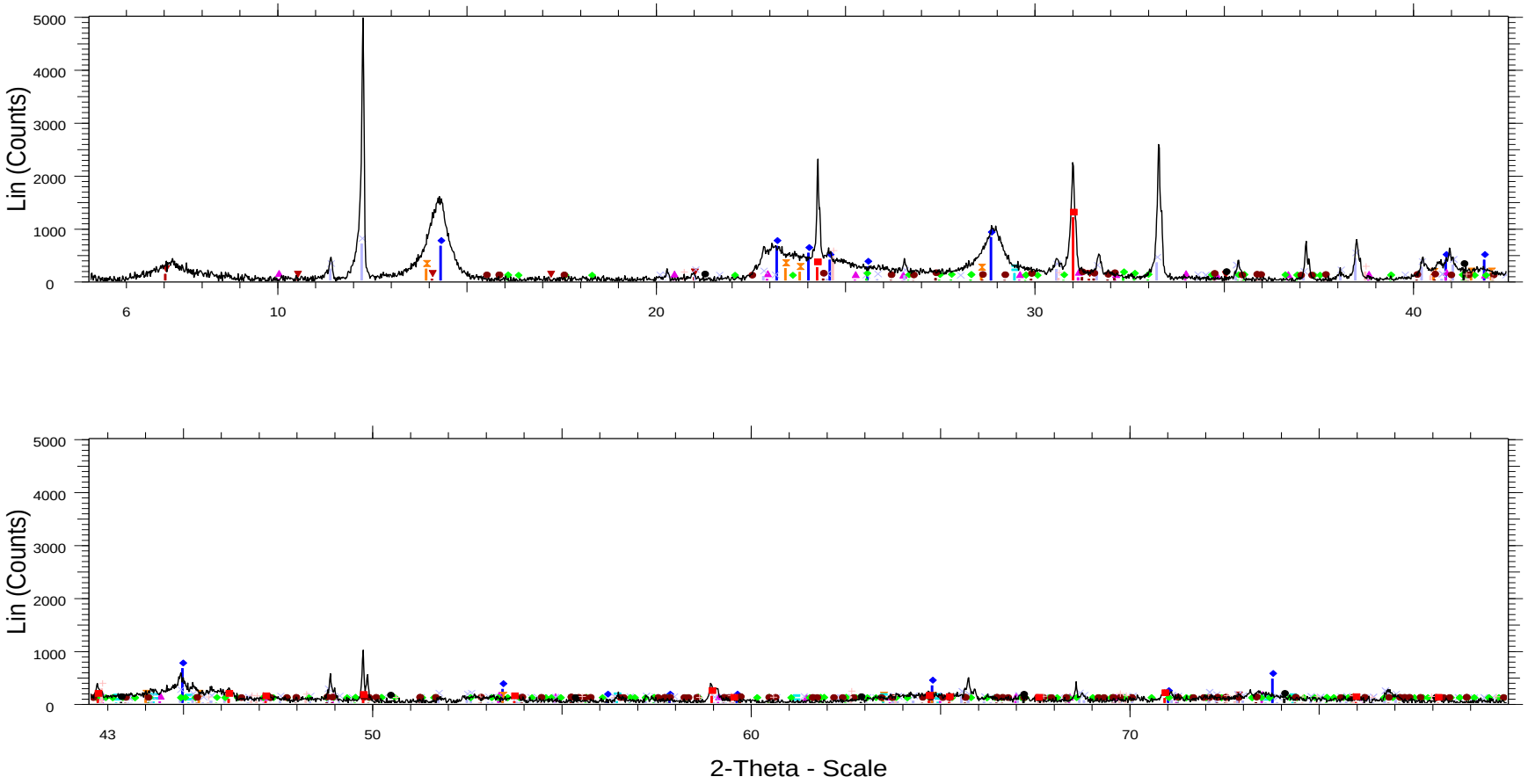
02/09/2023

SGWC-15B (48-50)



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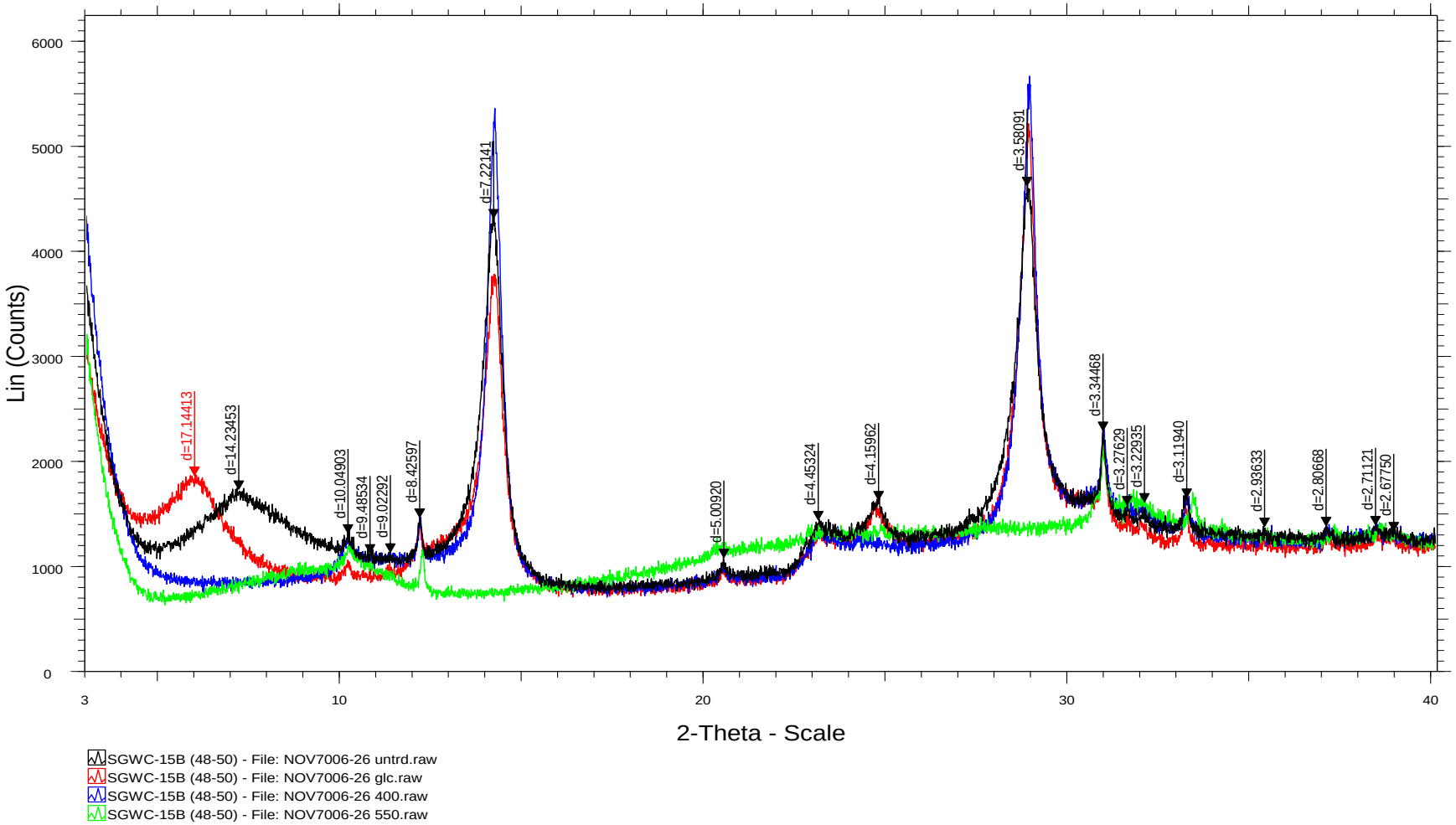
19515-01/MI7006-NOV22
02/09/2023

SGWC-15B (48-50)



Semi-Quantitative X-Ray Diffraction

Report Prepared for:	*Golder Associates Inc*
Project Number/ LIMS No.	*19515-01/MI7006-NOV22*
Sample Receipt:	*November 9, 2022*
Sample Analysis:	*November 29, 2022*
Reporting Date:	*February 9, 2023*

Instrument:	Panalytical X'pert Pro Diffractometer
Test Conditions:	Co radiation, 40 kV, 45 mA Regular Scanning: Step: 0.033°, Step time:0.15s, 2θ range: 6-70°
Interpretations :	PDF2/PDF4 powder diffraction databases issued by the International Center for Diffraction Data (ICDD). DiffracPIus Eva software.
Detection Limit :	0.5-2%. Strongly dependent on crystallinity.

Contents:

1) Method Summary
2) Summary of Mineral Asemblages
3) Semi-Quantitative XRD Results
4) Chemical Balance(s)
5) XRD Pattern(s)

Kim Gibbs, H.B.Sc., P.Geo.
Senior Mineralogist

Huyun Zhou, Ph.D., P.Geo.
Senior Mineralogist

Method Summary

Mineral Identification and Interpretation:

Mineral identification and interpretation involve matching the diffraction pattern of a test sample material to patterns of single-phase reference materials. The reference patterns are compiled by the Joint Committee on Powder Diffraction Standards - International Center for Diffraction Data (JCPDS-ICDD) and released on software as a database of Powder Diffraction Files (PDF).

Interpretations do not reflect the presence of non-crystalline and/or amorphous compounds. Mineral proportions are based on relative peak heights and may be strongly influenced by crystallinity, structural group or preferred orientations. Interpretations and relative proportions should be accompanied by supporting petrographic and geochemical data (Whole Rock Analysis, Inductively Coupled Plasma - Optical Emission Spectroscopy, etc.).

Semi-Quantitative Analysis:

The Semi-Quantitative analysis (RIR method) is performed based on each mineral's relative peak heights and of their respective I/Icor values, which are available from the PDF database. Mineral abundances for the bulk sample (in weight %) are generated by Bruker-EVA Software. These data are reconciled with a bulk chemistry (e.g. whole rock analysis including SiO_2, Al_2O_3, Na_2O, K_2O, CaO, MgO, Fe_2O_3, Cr_2O_3, MnO, TiO_2, P_2O_5, V_2O_5 or other chemical data). A chemical balance table shows the difference between the assay results and elemental concentrations determined by XRD.

Semi-Quantitative X-ray Diffraction Results

Mineral	SGWC-15B (31.5) (wt %)
Quartz	51.1
Kaolinite	19.6
Magnesiohornblende	12.3
Albite	7.7
Orthoclase	4.7
Goethite	2.8
Anatase	0.9
Magnetite	0.9
TOTAL	100

Mineral List

Mineral	Composition
Quartz	SiO_2
Kaolinite	$Al_2Si_2O_5(OH)_4$
Magnesiohornblende	$Ca_2(MgFe)_4Al(Si_7Al)O_{22}(OH,F)_2$
Albite	$NaAlSi_3O_8$
Orthoclase	$KAlSi_3O_8$
Goethite	$\alpha FeO{\cdot}OH$
Anatase	TiO_2
Magnetite	Fe_3O_4

Chemical Balance

SGWC-15B (31.5)

Name	Assay[1]	SQD[2]	Delta	Status
Oxygen	-	50.0	-	SQD
Silicon	32.7	34.1	-1.42	Both
Aluminum	6.29	6.17	0.12	Both
Iron	5.40	5.06	0.34	Both
Calcium	1.34	1.24	0.10	Both
Magnesium	1.13	1.15	-0.02	Both
Potassium	0.51	0.66	-0.16	Both
Titanium	0.41	0.51	-0.10	Both
Sodium	0.39	0.50	-0.11	Both
Manganese	0.12	-	-	XRF
Chromium	0.04	-	-	XRF
Vanadium	0.01	-	-	XRF
Hydrogen	-	0.35	0.35	SQD
Fluorine	-	0.23	0.23	SQD

1. Values measured by chemical assay. Reported in weight percent.

2. Values calculated based on mineral/compound formulas and quantites identified by semi-quantitative XRD.

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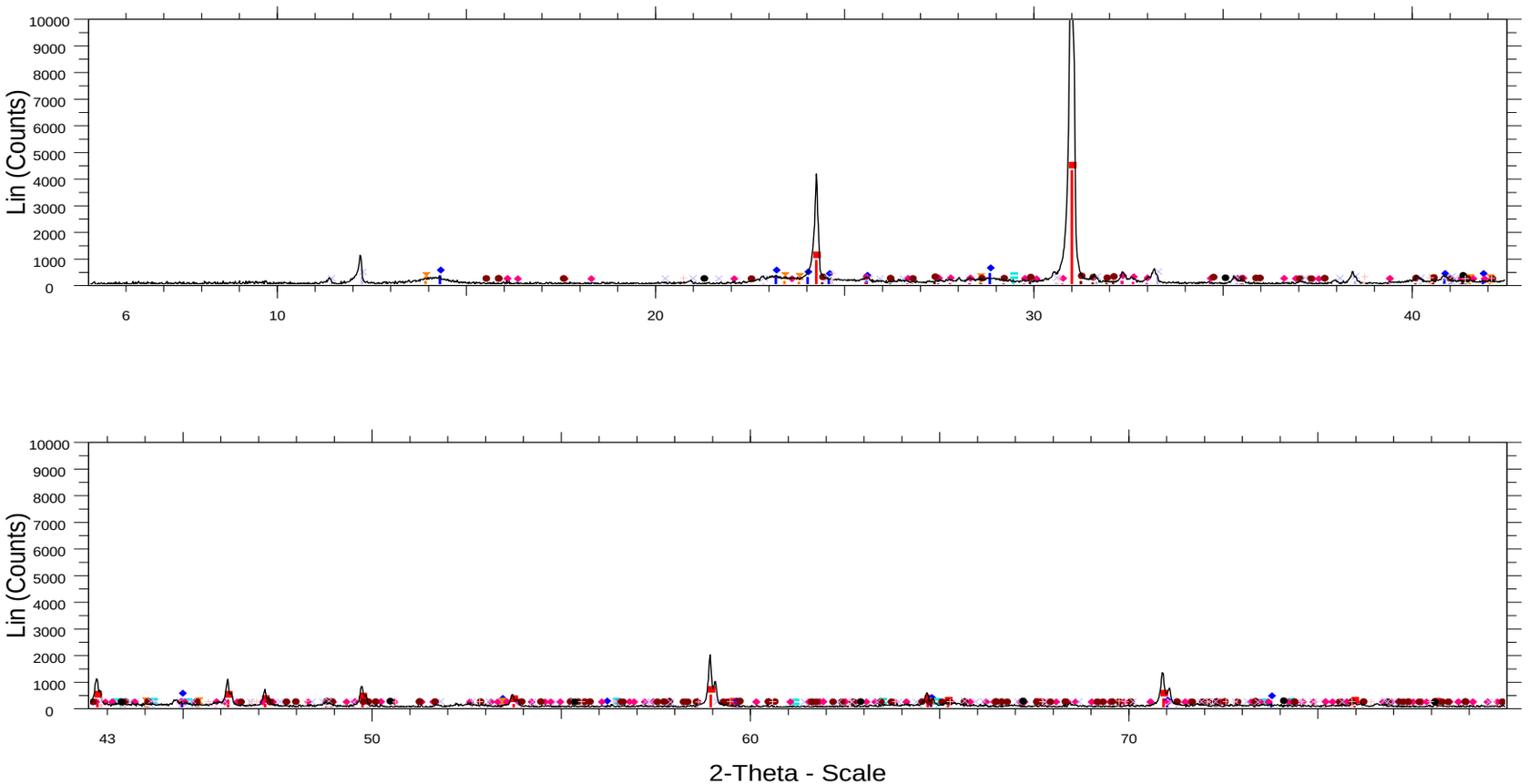
09-Feb-23

SGWC-15B (31.5)



SGS proposal: 19505-PR1 and COS
SGS project #: 2267

Sample receipt date: 2-Dec-22
Report date: 24-Mar-23
Work order date: 02-Dec-22
Version: Final

Customer details

Name:	PJ Nolan
Address:	WSP

Project reference: Golde USA

P.O. number:

COC:

ANALYSIS REPORT

SGS WO: 1

Report Distribution

Name	Email
PJ Nolan	
Michelle Kelvin (SGS)	

Special notes:

Tessier Sequential extraction with reporting requested for only Al, Co, Mn, Fe

3260 Production Way
Burnaby - British Columbia - V5A 4W4
Phone: 604-638-2349 FAX: 604-444-5486

ANALYSIS REPORT

Method Summaries *Test method information available upon request.*

S(T) and C(T): Total sulfur and total carbon by LECO, Method CSA06V
S(SO4): Sulfate by HCl digestion with ICP finish, Method CSA07V
S(S2-): Sulfide by calculation of S(T) - S(SO4)

TIC: Total inorganic carbon by coulometry, Method CSB02V
AP: Acid generating potential based on sulfide sulfur
NP: Modified neutralisation potential by excess acid addition and back titration to pH 8.3
Net NP: Net neutralisation potential = NP - AP
NPR: Neutralisation potential ratio = NP/AP

Metals by Aqua regia digest with ICP-OES/MS finish, Method ICP21B20/ICM21B20
Metals by multi-acid digest with ICP-OES/MS finish, Method ICP40Q12/IMS40Q12
Tessier Sequential Extraction - method available on request

Preliminary Data

Noelene Ahern - Manager: ARD

Final Data Approval

Noelene Ahern - Manager: ARD

Tessier Extraction

Water Soluble Metals

Reagent: 15 mL of Nanopure Distilled Water

Sample			SGWC-20B (14-15)	SGWC-20B (23.5-24.5)	SGWC-20B (30.5-31.5)
Sample weight (g)			1.0070	1.0043	1.0356
Reagent volume (mL)			15	15	15.0
Volume analysed (after wash dilution and preservation) (mL)			22.5	22.5	22.5
Final diluted solution weight (g)			21.55	22.00	22.90
Parameter	**Units**	**RDL**			
Aluminum Al	mg/L	0.001	0.751	2.44	3.04
Cobalt Co	mg/L	0.000004	0.00035	0.00326	0.00364
Iron Fe	mg/L	0.007	1.6	2	2.72
Manganese Mn	mg/L	0.00001	0.0299	0.0903	0.139

Tessier Extraction

Water Soluble Metals
Reagent: 15 mL of Nanopure Distilled Water

Sample			SGWC-20B (37.5-37.5)	SGWC-20C (13-14)	SGWC-20C (19-20)	SGWC-20C (33.5-34.5)
Sample weight (g)			1.0606	1.0247	1.0235	1.0110
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			22.5	22.5	22.5	22.5
Final diluted solution weight (g)			21.95	22.24	21.68	22.67
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	3.08	0.621	0.941	1.61
Cobalt Co	mg/L	0.000004	0.00236	0.00221	0.00605	0.00305
Iron Fe	mg/L	0.007	2.55	0.839	1.99	1.36
Manganese Mn	mg/L	0.00001	0.118	0.14	0.131	0.0587

Tessier Extraction

Water Soluble Metals
Reagent: 15 mL of Nanopure Distilled Water

Sample			SGWC-20D (8-9)	SGWC-20D (18.5-19.5)	SGWC-20D (33-34)	SGWC-18B (28-30)
Sample weight (g)			1.0664	1.0592	1.0821	1.0282
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			22.5	22.5	22.5	22.5
Final diluted solution weight (g)			23.24	22.67	22.78	23.50
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	0.202	0.291	1.73	6.43
Cobalt Co	mg/L	0.000004	0.000101	0.00557	0.00459	0.00413
Iron Fe	mg/L	0.007	0.285	0.511	1.79	0.931
Manganese Mn	mg/L	0.00001	0.00252	0.131	0.0699	0.143

Tessier Extraction

Water Soluble Metals
Reagent: 15 mL of Nanopure Distilled Water

Sample			SGWC-18B (37-39)	SGWC-18C (32-34)	SGWC-18C (43-45)	SGWC-18C (55-57)
Sample weight (g)			1.0183	1.0091	1.0295	1.0669
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			22.5	22.5	22.5	22.5
Final diluted solution weight (g)			22.48	22.49	22.87	23.53
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	9.34	0.363	0.759	3.62
Cobalt Co	mg/L	0.000004	0.00484	0.00255	0.00328	0.00192
Iron Fe	mg/L	0.007	6.56	0.419	0.836	2.7
Manganese Mn	mg/L	0.00001	0.273	0.104	0.0911	0.128

Tessier Extraction

Water Soluble Metals
Reagent: 15 mL of Nanopure Distilled Water

Sample			SGWC-18D (28-30)	SGWC-18D (42.5-44.5)	SGWC-18D (47.5-49.5)	SGWC-15A (31.3-33.3)
Sample weight (g)			1.0241	1.0351	1.0369	1.0470
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			22.5	22.5	22.5	22.5
Final diluted solution weight (g)			22.58	23.34	22.17	23.09
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	0.678	4.26	2.55	0.41
Cobalt Co	mg/L	0.000004	0.0044	0.0044	0.0023	0.00752
Iron Fe	mg/L	0.007	0.76	5.79	3.07	0.437
Manganese Mn	mg/L	0.00001	0.0749	0.143	0.098	0.11

Tessier Extraction

Water Soluble Metals
Reagent: 15 mL of Nanopure Distilled Water

Sample			SGWC-15A (42-44)	SGWC-15A (46-48)	SGWC-15C (28-30)	SGWC-15C (43-45)
Sample weight (g)			1.0185	1.0649	1.0568	1.0140
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			22.5	22.5	22.5	22.5
Final diluted solution weight (g)			22.45	22.90	22.33	23.29
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	2.58	4.1	0.29	1.21
Cobalt Co	mg/L	0.000004	0.00242	0.00174	0.0144	0.00125
Iron Fe	mg/L	0.007	2.82	3.69	0.27	0.63
Manganese Mn	mg/L	0.00001	0.0772	0.0594	0.256	0.0268

Tessier Extraction

Water Soluble Metals
Reagent: 15 mL of Nanopure Distilled Water

Sample			SGWC-15B (28-30)	SGWC-15B (42-44)	SGWC-15B (48-50)	Blank
Sample weight (g)			1.0562	1.0476	1.0152	0
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			22.5	22.5	22.5	22.5
Final diluted solution weight (g)			22.62	22.84	23.29	23.40
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	0.37	1.02	1.97	0.01
Cobalt Co	mg/L	0.000004	0.00835	0.00132	0.00279	0.00019
Iron Fe	mg/L	0.007	0.21	0.61	2.67	< 0.07
Manganese Mn	mg/L	0.00001	0.282	0.0356	0.0827	0.0009

Tessier Extraction

Exchangeable Metals
Reagent: 15 mL of 1 M MgCl2 (pH 7)

Sample			SGWC-20B (14-15)	SGWC-20B (23.5-24.5)	SGWC-20B (30.5-31.5)
Reagent volume (mL)			15	15	15
Volume analysed (after wash dilution and preservation) (mL)			27.5	27.5	27.5
Final diluted solution weight (g)			29.8	30.1	30.1
Parameter	**Units**	**RDL**			
Aluminum Al	mg/L	0.001	1	0.6	0.9
Cobalt Co	mg/L	0.000004	0.0402	0.08	0.0057
Iron Fe	mg/L	0.007	2.1	0.8	1
Manganese Mn	mg/L	0.00001	2.06	2.8	0.589

Tessier Extraction

Exchangeable Metals
Reagent: 15 mL of 1 M MgCl2 (pH 7)

Sample			SGWC-20B (37.5-37.5)	SGWC-20C (13-14)	SGWC-20C (19-20)	SGWC-20C (33.5-34.5)	SGWC-20D (8-9)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			27.5	27.5	27.5	27.5	27.5
Final diluted solution weight (g)			30.4	30.2	29.6	29.3	28.4
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	1.2	4.2	11.5	0.8	5.4
Cobalt Co	mg/L	0.000004	0.0029	0.0343	0.117	0.0916	0.0228
Iron Fe	mg/L	0.007	1.1	0.8	1	< 0.7	2.8
Manganese Mn	mg/L	0.00001	0.393	1.29	2.14	1.06	0.521

Tessier Extraction

Exchangeable Metals
Reagent: 15 mL of 1 M MgCl2 (pH 7)

Sample			SGWC-20D (18.5-19.5)	SGWC-20D (33-34)	SGWC-18B (28-30)	SGWC-18B (37-39)	SGWC-18C (32-34)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			27.5	27.5	27.5	27.5	27.5
Final diluted solution weight (g)			28.6	29.8	29.3	29.8	29.0
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	5.8	0.5	2	1	1.7
Cobalt Co	mg/L	0.000004	0.231	0.0576	0.0045	0.0032	0.0621
Iron Fe	mg/L	0.007	1	0.9	0.9	1.4	0.8
Manganese Mn	mg/L	0.00001	4.92	0.858	0.339	0.685	1.77

Tessier Extraction

Exchangeable Metals
Reagent: 15 mL of 1 M MgCl2 (pH 7)

Sample			SGWC-18C (43-45)	SGWC-18C (55-57)	SGWC-18D (28-30)	SGWC-18D (42.5-44.5)	SGWC-18D (47.5-49.5)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			27.5	27.5	27.5	27.5	27.5
Final diluted solution weight (g)			28.8	29.3	29.8	29.5	29.5
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	0.6	0.115	0.081	0.14	1.56
Cobalt Co	mg/L	0.000004	0.0599	0.000274	0.00318	0.000545	0.000254
Iron Fe	mg/L	0.007	0.7	0.155	0.078	0.136	0.131
Manganese Mn	mg/L	0.00001	1.15	0.0531	0.0636	0.0473	0.027

Tessier Extraction

Exchangeable Metals
Reagent: 15 mL of 1 M MgCl2 (pH 7)

Sample			SGWC-15A (31.3-33.3)	SGWC-15A (42-44)	SGWC-15A (46-48)	SGWC-15C (28-30)	SGWC-15C (43-45)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			27.5	27.5	27.5	27.5	27.5
Final diluted solution weight (g)			29.2	30.0	28.9	29.5	30.2
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	0.14	0.118	0.122	16.1	1.7
Cobalt Co	mg/L	0.000004	0.0209	0.000498	0.00043	0.158	0.052
Iron Fe	mg/L	0.007	0.07	0.089	0.061	0.7	0.71
Manganese Mn	mg/L	0.00001	0.321	0.0457	0.0438	2.54	1.13

Tessier Extraction

Exchangeable Metals
Reagent: 15 mL of 1 M MgCl2 (pH 7)

Sample			SGWC-15B (28-30)	SGWC-15B (42-44)	SGWC-15B (48-50)	Blank
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			27.5	27.5	27.5	27.5
Final diluted solution weight (g)			29.9	29.1	29.1	29.4
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	3.5	0.69	1.1	< 0.01
Cobalt Co	mg/L	0.000004	0.0649	0.0627	0.00408	< 0.00004
Iron Fe	mg/L	0.007	0.31	0.46	1.1	< 0.07
Manganese Mn	mg/L	0.00001	1.55	1.43	0.547	0.0013

Tessier Extraction

Metals Bound to Carbonates

Reagent: 15 mL of 1 M NaOAc (adjusted to pH 5.0 with Acetic Acid)

Sample			SGWC-20B (14-15)	SGWC-20B (23.5-24.5)	SGWC-20B (30.5-31.5)
Reagent volume (mL)			15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5
Final diluted solution weight (g)			33.09	33.55	33.41
Parameter	**Units**	**RDL**			
Aluminum Al	mg/L	0.001	9.2	7.5	8.8
Cobalt Co	mg/L	0.000004	0.0199	0.0598	0.0432
Iron Fe	mg/L	0.007	1.4	5.5	7.1
Manganese Mn	mg/L	0.00001	0.288	1.22	1.69

Tessier Extraction

Metals Bound to Carbonates

Reagent: 15 mL of 1 M NaOAc (adjusted to pH 5.0 with Acetic Acid)

Sample			SGWC-20B (37.5-37.5)	SGWC-20C (13-14)	SGWC-20C (19-20)	SGWC-20C (33.5-34.5)	SGWC-20D (8-9)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			33.88	33.11	34.14	33.50	33.47
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	8.6	12	10.2	7.7	1.08
Cobalt Co	mg/L	0.000004	0.0451	0.0445	0.0361	0.159	0.000965
Iron Fe	mg/L	0.007	7	3.1	2.1	5.2	0.1
Manganese Mn	mg/L	0.00001	2.35	0.888	0.602	2.15	0.0168

Tessier Extraction

Metals Bound to Carbonates

Reagent: 15 mL of 1 M NaOAc (adjusted to pH 5.0 with Acetic Acid)

Sample			SGWC-20D (18.5-19.5)	SGWC-20D (33-34)	SGWC-18B (28-30)	SGWC-18B (37-39)	SGWC-18C (32-34)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			33.69	33.90	18.97	33.54	33.15
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	0.941	0.83	1.24	0.98	1.25
Cobalt Co	mg/L	0.000004	0.00528	0.0142	0.0116	0.00545	0.00608
Iron Fe	mg/L	0.007	0.218	0.568	0.669	0.82	0.292
Manganese Mn	mg/L	0.00001	0.108	0.239	0.479	0.396	0.116

Tessier Extraction

Metals Bound to Carbonates

Reagent: 15 mL of 1 M NaOAc (adjusted to pH 5.0 with Acetic Acid)

Sample			SGWC-18C (43-45)	SGWC-18C (55-57)	SGWC-18D (28-30)	SGWC-18D (42.5-44.5)	SGWC-18D (47.5-49.5)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			33.15	33.06	33.10	33.21	34.20
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	1.04	0.981	0.94	0.881	0.159
Cobalt Co	mg/L	0.000004	0.00388	0.00376	0.00489	0.00409	0.00136
Iron Fe	mg/L	0.007	0.322	0.749	0.359	0.647	0.179
Manganese Mn	mg/L	0.00001	0.0932	0.372	0.0921	0.156	0.0696

Tessier Extraction

Metals Bound to Carbonates

Reagent: 15 mL of 1 M NaOAc (adjusted to pH 5.0 with Acetic Acid)

Sample			SGWC-15A (31.3-33.3)	SGWC-15A (42-44)	SGWC-15A (46-48)	SGWC-15C (28-30)	SGWC-15C (43-45)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			33.35	33.84	33.58	33.67	33.83
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	1.21	0.855	0.969	14.5	12.3
Cobalt Co	mg/L	0.000004	0.00826	0.00228	0.00317	0.0316	0.0911
Iron Fe	mg/L	0.007	0.338	0.548	0.699	0.98	4.6
Manganese Mn	mg/L	0.00001	0.133	0.102	0.129	0.357	1.97

Tessier Extraction

Metals Bound to Carbonates

Reagent: 15 mL of 1 M NaOAc (adjusted to pH 5.0 with Acetic Acid)

Sample			SGWC-15B (28-30)	SGWC-15B (42-44)	SGWC-15B (48-50)	Blank
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5
Final diluted solution weight (g)			33.12	33.26	34.08	33.35
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	12.5	12.1	8.5	0.01
Cobalt Co	mg/L	0.000004	0.182	0.141	0.0463	< 0.00004
Iron Fe	mg/L	0.007	4.2	5.9	7.7	< 0.07
Manganese Mn	mg/L	0.00001	3.01	3.02	1.66	0.0025

Tessier Extraction

Metals Bound to Fe and Mn Oxides
Reagent: 15 mL of 0.04M NH2OH. HCl in 25% HOAc

Sample			SGWC-20B (14-15)	SGWC-20B (23.5-24.5)	SGWC-20B (30.5-31.5)
Reagent volume (mL)			15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5
Final diluted solution weight (g)			32.98	33.09	32.57
Parameter	**Units**	**RDL**			
Aluminum Al	mg/L	0.001	41.7	26.3	31.6
Cobalt Co	mg/L	0.000004	0.423	0.469	0.582
Iron Fe	mg/L	0.007	225	88.2	97.9
Manganese Mn	mg/L	0.00001	12.8	18.3	26.8

Tessier Extraction

Metals Bound to Fe and Mn Oxides
Reagent: 15 mL of 0.04M NH2OH. HCl in 25% HOAc

Sample			SGWC-20B (37.5-37.5)	SGWC-20C (13-14)	SGWC-20C (19-20)	SGWC-20C (33.5-34.5)	SGWC-20D (8-9)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			32.57	32.89	33.10	33.13	32.72
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	29.1	38.2	30.1	35.5	36.9
Cobalt Co	mg/L	0.000004	0.242	0.283	1.31	1.28	0.0616
Iron Fe	mg/L	0.007	78.6	115	169	121	139
Manganese Mn	mg/L	0.00001	16.4	9	35.8	36.9	1.71

Tessier Extraction

Metals Bound to Fe and Mn Oxides
Reagent: 15 mL of 0.04M NH2OH. HCl in 25% HOAc

Sample			SGWC-20D (18.5-19.5)	SGWC-20D (33-34)	SGWC-18B (28-30)	SGWC-18B (37-39)	SGWC-18C (32-34)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			32.44	32.50	32.98	33.24	33.46
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	31.8	29.8	53.4	33.4	60.8
Cobalt Co	mg/L	0.000004	0.434	1.13	0.156	0.151	1.1
Iron Fe	mg/L	0.007	177	101	69.2	92.5	166
Manganese Mn	mg/L	0.00001	13.1	31.1	14.4	8.89	47.2

Tessier Extraction

Metals Bound to Fe and Mn Oxides
Reagent: 15 mL of 0.04M NH2OH. HCl in 25% HOAc

Sample			SGWC-18C (43-45)	SGWC-18C (55-57)	SGWC-18D (28-30)	SGWC-18D (42.5-44.5)	SGWC-18D (47.5-49.5)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			32.13	33.16	32.46	32.93	32.21
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	59	35.4	43.5	31.8	18.4
Cobalt Co	mg/L	0.000004	2.17	0.0562	3.69	0.575	0.432
Iron Fe	mg/L	0.007	194	62.4	144	124	95.7
Manganese Mn	mg/L	0.00001	59.9	5.54	66	16.1	13.4

Tessier Extraction

Metals Bound to Fe and Mn Oxides
Reagent: 15 mL of 0.04M NH2OH. HCl in 25% HOAc

Sample			SGWC-15A (31.3-33.3)	SGWC-15A (42-44)	SGWC-15A (46-48)	SGWC-15C (28-30)	SGWC-15C (43-45)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5	32.5
Final diluted solution weight (g)			32.37	32.21	32.74	32.03	32.73
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	48.7	34.4	40.1	45	43.3
Cobalt Co	mg/L	0.000004	3.38	0.698	0.332	1.93	1.37
Iron Fe	mg/L	0.007	183	145	58.4	177	147
Manganese Mn	mg/L	0.00001	55.6	25.8	11.8	46.3	41

Tessier Extraction

Metals Bound to Fe and Mn Oxides
Reagent: 15 mL of 0.04M NH2OH. HCl in 25% HOAc

Sample			SGWC-15B (28-30)	SGWC-15B (42-44)	SGWC-15B (48-50)	Blank
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL)			32.5	32.5	32.5	32.5
Final diluted solution weight (g)			32.85	32.03	32.03	32.58
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	48.2	49.3	24	0.02
Cobalt Co	mg/L	0.000004	1.19	1.23	0.899	0.00039
Iron Fe	mg/L	0.007	108	151	94.9	0.1
Manganese Mn	mg/L	0.00001	30.8	36.8	32	0.0005

Tessier Extraction

Metals Bound to Organics
Reagent: 3 mL of 0.02 M HNO3 + 5 mL 30% H2O2
+ 5 mL 1.2 M NH4OAc in 20% HNO3

Sample			SGWC-20B (14-15)	SGWC-20B (23.5-24.5)	SGWC-20B (30.5-31.5)
Reagent volume (mL)			15	15	15
Volume analysed (after wash dilution and preservation) (mL) (Vol. is approximate)			38	38	38
Final diluted solution weight (g)			37	37	32
Parameter	**Units**	**RDL**			
Aluminum Al	mg/L	0.001	22.2	10.9	10.2
Cobalt Co	mg/L	0.000004	0.0816	0.0535	0.0499
Iron Fe	mg/L	0.007	1.53	0.55	0.7
Manganese Mn	mg/L	0.00001	1.84	1.74	1.94

Tessier Extraction

Metals Bound to Organics Reagent: 3 mL of 0.02 M HNO3 + 5 mL 30% H2O2 + 5 mL 1.2 M NH4OAc in 20% HNO3							
Sample			**SGWC-20B (37.5-37.5)**	**SGWC-20C (13-14)**	**SGWC-20C (19-20)**	**SGWC-20C (33.5-34.5)**	**SGWC-20D (8-9)**
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL) (Vol. is approximate)			38	38	38	38	38
Final diluted solution weight (g)			36	36	37	37	36
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	8.82	11	19.4	9.49	9.8
Cobalt Co	mg/L	0.000004	0.0201	0.0271	0.279	0.0838	0.00947
Iron Fe	mg/L	0.007	0.4	0.72	1.34	0.94	0.42
Manganese Mn	mg/L	0.00001	1.04	0.746	7.63	2.08	0.216

Tessier Extraction

Metals Bound to Organics
Reagent: 3 mL of 0.02 M HNO3 + 5 mL 30% H2O2
+ 5 mL 1.2 M NH4OAc in 20% HNO3

Sample			SGWC-20D (18.5-19.5)	SGWC-20D (33-34)	SGWC-18B (28-30)	SGWC-18B (37-39)	SGWC-18C (32-34)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL) (Vol. is approximate)			38	38	38	38	38
Final diluted solution weight (g)			36	37	37	37	37
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	11.1	13.9	2.5	6.5	6.9
Cobalt Co	mg/L	0.000004	0.0486	0.201	0.00455	0.011	0.0425
Iron Fe	mg/L	0.007	0.87	0.8	0.41	0.86	0.62
Manganese Mn	mg/L	0.00001	1.26	5.24	0.194	0.44	1.6

Tessier Extraction

Metals Bound to Organics
Reagent: 3 mL of 0.02 M HNO3 + 5 mL 30% H2O2
+ 5 mL 1.2 M NH4OAc in 20% HNO3

Sample			SGWC-18C (43-45)	SGWC-18C (55-57)	SGWC-18D (28-30)	SGWC-18D (42.5-44.5)	SGWC-18D (47.5-49.5)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL) (Vol. is approximate)			38	38	38	38	38
Final diluted solution weight (g)			36	37	37	36	36
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	7.5	1.3	13.9	6.2	3.5
Cobalt Co	mg/L	0.000004	0.0947	0.00366	0.357	0.039	0.0227
Iron Fe	mg/L	0.007	0.32	0.37	0.55	0.65	3
Manganese Mn	mg/L	0.00001	2.37	0.171	5.64	0.967	0.555

Tessier Extraction

Metals Bound to Organics
Reagent: 3 mL of 0.02 M HNO3 + 5 mL 30% H2O2
+ 5 mL 1.2 M NH4OAc in 20% HNO3

Sample			SGWC-15A (31.3-33.3)	SGWC-15A (42-44)	SGWC-15A (46-48)	SGWC-15C (28-30)	SGWC-15C (43-45)
Reagent volume (mL)			15	15	15	15	15
Volume analysed (after wash dilution and preservation) (mL) (Vol. is approximate)			38	38	38	38	38
Final diluted solution weight (g)			36	36	37	36	37
Parameter	**Units**	**RDL**					
Aluminum Al	mg/L	0.001	19.9	13.7	3.1	14	11.1
Cobalt Co	mg/L	0.000004	0.413	0.0982	0.0245	0.135	0.0957
Iron Fe	mg/L	0.007	0.72	0.86	0.41	29.7	2.92
Manganese Mn	mg/L	0.00001	6.03	3.36	0.813	3.55	3.03

Tessier Extraction

Metals Bound to Organics
Reagent: 3 mL of 0.02 M HNO3 + 5 mL 30% H2O2
+ 5 mL 1.2 M NH4OAc in 20% HNO3

Sample			SGWC-15B (28-30)	SGWC-15B (42-44)	SGWC-15B (48-50)	Blank
Reagent volume (mL)			15	15	15	15
Volume analysed (after wash dilution and preservation) (mL) (Vol. is approximate)			38	38	38	38
Final diluted solution weight (g)			36	36	36	39
Parameter	**Units**	**RDL**				
Aluminum Al	mg/L	0.001	5.65	10.5	17.1	10.1
Cobalt Co	mg/L	0.000004	0.0409	0.0831	0.277	0.0761
Iron Fe	mg/L	0.007	0.62	0.6	1.25	3.41
Manganese Mn	mg/L	0.00001	1.21	2.49	10.5	2.42

Metals - Multi-Acid Digestion with ICP-OES/MS Finish

Test	Residual wt	Al	Fe	Mn	Co
Units	g	%	%	mg/kg	mg/kg
Method Code		ICP40Q12	ICP40Q12	ICP40Q12	ICM40Q12
Lower detection		0.01	0.01	2	0.1
Upper detection		15	15	10000	10000
Sample ID					
SGWC-20B (14-15)	0.9240	12.400	12.56	456	20.1
SGWC-20B (23.5-24.5)	0.9437	11.090	7.09	485	13.5
SGWC-20B (30.5-31.5)	0.9729	9.030	6.57	556	14.9
SGWC-20B (37.5-37.5)	1.0571	9.390	4.82	434	11.3
SGWC-20C (13-14)	0.9723	10.610	8.69	161	5.6
SGWC-20C (19-20)	0.9509	10.830	11.31	313	9.9
SGWC-20C (33.5-34.5)	0.94900	8.890	5.88	194	11
SGWC-20D (8-9)	1.0039	11.460	8.31	180	3.41
SGWC-20D (18.5-19.5)	0.9924	10.500	6.03	144	10.02
SGWC-20D (33-34)	0.9765	10.120	5.11	130	19.8
SGWC-18B (28-30)	0.9626	9.240	2.9	295	6.49
SGWC-18B (37-39)	0.9595	8.500	3.64	540	24.37
SGWC-18C (32-34)	0.9310	11.100	8.57	325	3.71
SGWC-18C (43-45)	0.5620	11.650	9.75	233	9.25
SGWC-18C (55-57)	1.0157	8.550	3.37	586	12.76
SGWC-18D (28-30)	0.9295	11.310	10.15	497	29.71
SGWC-18D (42.5-44.5)	0.9445	9.840	8.51	1009	15.26
SGWC-18D (47.5-49.5)	0.6926	9.870	8.91	1123	18.31
SGWC-15A (31.3-33.3)	0.9501	11.960	10.03	76	8.15
SGWC-15A (42-44)	0.9155	11.770	7.37	585	16.07
SGWC-15A (46-48)	0.9562	9.220	6.43	928	13.39
SGWC-15C (28-30)	0.9628	12.440	11.01	118	9.4
SGWC-15C (43-45)	0.9171	10.630	7.54	186	6.9
SGWC-15B (28-30)	0.9988	10.230	7.01	201	6.4
SGWC-15B (42-44)	0.9628	9.950	7.49	129	6
SGWC-15B (48-50)	0.8964	9.81	8.51	562	18.2
QA/QC					
Blank		<0.01	<0.01	<2	<0.1
*Rep SGWC-18B (28-30) Residue		8.720	2.87	292	9.4
*Rep SGWC-20B (37.5-37.5)		8.860	4.52	410	11.6
*Rep SGWC-15B (42-44)		10.320	7.71	120	5
Certified standards					
*Std OREAS 601b		6.490	2.22	216	2.9
*Std OREAS 905		7.460	4.04	378	14.9
*Std OREAS 905		7.920	4.38	402	14.5
*Std OREAS 601b		6.280	2.21	210	3
*Std OREAS 905		7.300	4.13	367	15
*Std OREAS 601b		6.460	2.29	215	2.8

SGS proposal: 19020-PR1-R1
SGS project #: 2224

Metals - Multi Acid Digestion with ICP-OES/MS Finish - CRM Expected Values and Tolerance

CRM	Test	Al	Ba	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ni	P	S	Sr	Ti	V
	Units	%	ppm	%	ppm	ppm	%	%	ppm	%	ppm	%	ppm	%	%	ppm	%	ppm
Method Code	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12	ICP40Q12
	Lower detection	0.01	5	0.01	1	0.5	0.01	0.01	1	0.01	2	0.01	1	0.01	0.01	0.5	0.01	1
	Upper detection	15	10000	15	10000	10000	15	15	10000	15	10000	15	10000	15	5	10000	15	10000
OREAS 905	Expected value	7.42	2699.0	0.59	19.2	1533	4.08	2.88	20	0.28	380	2.40	9.5	0.028	0.07	157	0.12	10.1
	Tolerance (%)	10.7	14.0	14.2	49.1	11.9	11.5	12.1	23.9	17.2	13.0	14.1	26.5	24.6	29.4	12.5	15.4	28.6
OREAS 601B	Expected value	6.63	BDL	0.887	23.7	1010	2.29	2.41	22.6	0.10	222	1.90	6.5	0.029	1.50	241	0.14	12.1
	Tolerance (%)	10.1		14.9	37.6	6.8	10.7	9.4	26.3	20.0	11.1	14.3	30.9	15.1	7.2	14.7	11.8	21.7

CRM	Test	Zn	Zr	Ag	As	Be	Bi	Cd	Ce	Co	Cs	Ga	Hf	In	La	Lu	Mo	Nb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method Code	ICP40Q12	ICP40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12
	Lower detection	1	0.5	0.01	1	0.1	0.02	0.01	0.05	0.1	0.05	0.1	0.05	0.02	0.1	0.01	0.05	0.05
	Upper detection	10000	10000	100	10000	100	10000	10000	1000	10000	1000	10000	500	500	10000	1000	10000	1000
OREAS 905	Expected value	138	252.000	0.52	34.7	3.04	5.7	0.36	92	14.8	6.78	25.1	6.8	0.64	46	0.1	3.27	18.1
	Tolerance (%)	14.5	13.7	55.1	15.0	31.2	17.7	37.7	14.0	16.3	18.0	12.2	16.5	22.3	19.4	43.4	24.0	18.1
OREAS 601B	Expected value	318	186.000	50.10	284	2.24	18.0	2.05	70	2.97	4.88	23.4	5.1	0.47	33.5	0.0731	5.22	14.4
	Tolerance (%)	5.6	17.0	10.4	19.2	44.2	19.0	16.3	35.5	18.6	11.4	22.9	17.4	17.0	22.6	54.6	27.1	21.7

CRM	Test	Pb	Rb	Sb	Sc	Se	Sn	Ta	Tb	Te	Th	Tl	U	W	Y	Yb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method Code	ICP40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	ICM40Q12	
	Lower detection	0.2	0.2	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1	0.02	0.05	0.1	0.05	0.1
	Upper detection	10000	10000	10000	10000	1000	1000	10000	10000	1000	10000	10000	10000	10000	10000	100
OREAS 905	Expected value	30.40	138	1.95	4.9	2.84	3.96	1.34	0.77	0.1	14.60	0.7	5.0	2.78	15.7	0.68
	Tolerance (%)	20.7	13.8	19.7	28.2	34.0	20.5	18.5	27.1	58.3	15.6	22.9	18.4	18.8	15.4	21.2
OREAS 601B	Expected value	318.0	98	22.9	3.8	10.6	3.36	1.11	0.52	12.6	11.90	1.4	4.6	6.13	11.1	0.54
	Tolerance (%)	14.7	10.9	27.4	19.0	31.2	15.8	20.6	40.4	22.8	20.7	19.2	14.0	16.6	13.7	30.4

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